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Supplementary appendix

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Supplement to: Changes in life expectancy and disease burden in Norway 1990-2019: an analysis of the
Global Burden of Disease Study 2019

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Appendix tables

Table S1. Life expectancy at birth for males and females in Norway and the 11 Norwegian counties in 1990 and 2019. Values shown in parentheses indicate 95% uncertainty intervals.

	Males		Females	
	1990	2019	1990	2019
Norway	73.6 [73.5, 73.8]	81.1 [80.9, 81.3]	80.2 [80.0, 80.3]	84.7 [84.4, 84.9]
Agder	72.9 [72.4, 73.3]	80.8 [79.9, 81.7]	79.9 [79.4, 80.4]	84.1 [83.0, 85.0]
Innlandet	73.6 [73.2, 74.1]	80.7 [79.8, 81.5]	79.9 [79.4, 80.3]	84.2 [83.3, 85.1]
Møre og Romsdal	75.1 [74.6, 75.6]	81.9 [80.7, 83.1]	81.0 [80.4, 81.5]	84.9 [83.9, 85.9]
Nordland	72.8 [72.3, 73.4]	80.2 [78.9, 81.4]	79.9 [79.3, 80.4]	84.4 [83.4, 85.5]
Oslo	71.9 [71.4, 72.4]	81.3 [80.0, 82.7]	79.0 [78.5, 79.4]	84.6 [83.7, 85.6]
Rogaland	74.8 [74.2, 75.3]	81.0 [79.9, 82.1]	80.6 [80.2, 81.1]	85.2 [84.3, 86.1]
Troms og Finnmark	71.9 [71.5, 72.4]	80.3 [79.4, 81.2]	79.9 [79.4, 80.5]	84.6 [83.6, 85.6]
Trøndelag	73.7 [73.2, 74.2]	80.7 [79.7, 81.8]	80.1 [79.6, 80.5]	84.0 [83.0, 85.1]
Vestfold og Telemark	73.6 [73.2, 74.1]	80.4 [79.6, 81.2]	80.0 [79.6, 80.5]	84.2 [83.4, 85.0]
Vestland	74.8 [74.4, 75.3]	81.2 [80.2, 82.2]	81.4 [81.0, 81.8]	85.4 [84.6, 86.2]
Viken	74.1 [73.8, 74.4]	81.9 [81.3, 82.6]	80.3 [79.9, 80.6]	84.9 [84.3, 85.5]

Table S2. Healthy life expectancy (HALE) at birth for males and females in Norway and the 11 Norwegian counties in 1990 and 2019. Values shown in parentheses indicate 95% uncertainty intervals.

	Males		Females	
	1990	2019	1990	2019
Norway	64.7 [62.1, 67.0]	70.5 [67.5, 73.2]	68.0 [64.4, 71.1]	71.1 [67.1, 74.6]
Agder	64.1 [61.7, 66.5]	70.3 [67.3, 73.1]	67.9 [64.4, 71.1]	70.7 [66.7, 74.3]
Innlandet	64.7 [62.1, 67.0]	70.1 [66.9, 72.9]	67.7 [64.1, 70.9]	70.7 [66.8, 74.4]
Møre og Romsdal	65.9 [63.1, 68.4]	71.1 [67.9, 74.0]	68.7 [65.1, 71.9]	71.4 [67.6, 75.0]
Nordland	64.2 [61.6, 66.5]	69.9 [66.9, 72.5]	67.8 [64.3, 70.9]	71.0 [67.0, 74.5]
Oslo	63.0 [60.5, 65.4]	70.6 [67.4, 73.6]	66.6 [62.9, 69.8]	70.7 [66.5, 74.3]
Rogaland	65.7 [62.9, 68.0]	70.5 [67.5, 73.3]	68.5 [64.8, 71.7]	71.6 [67.6, 75.2]
Troms og Finnmark	63.5 [60.9, 65.6]	70.0 [66.8, 72.7]	67.9 [64.3, 71.1]	71.2 [67.3, 74.7]
Trøndelag	64.8 [62.2, 67.2]	70.4 [67.3, 73.2]	68.0 [64.4, 71.2]	70.8 [66.9, 74.3]
Vestfold og Telemark	64.7 [62.1, 67.1]	69.9 [66.9, 72.7]	67.9 [64.2, 71.1]	70.8 [66.9, 74.3]
Vestland	65.8 [63.2, 68.2]	70.7 [67.7, 73.5]	69.2 [65.6, 72.4]	71.8 [67.9, 75.3]
Viken	65.1 [62.4, 67.4]	71.1 [67.9, 73.9]	68.1 [64.5, 71.2]	71.2 [67.2, 74.7]

Table S3. All-cause YLL, YLD, and DALY rates per 100 000 inhabitants, 2019 [95% uncertainty interval]. Rates not standardised for age. Coloured cells indicate that the uncertainty interval of the county estimate does not overlap the uncertainty interval of the national estimate (red = county rate is above the national rate; blue = county rate is below the national rate).

	Norway	Agder	Innlandet	Møre og Romsdal	Nordland	Oslo	Rogaland	Troms og Finnmark	Trøndelag	Vestfold og Telemark	Vestland	Viken	
YLLs	Females	10 831 [10 586, 11 090]	11 508 [10 403, 12 855]	13 695 [12 417, 15 022]	11 478 [10 256, 12 840]	12 502 [11 099, 14 030]	8 873 [8 037, 9 793]	9 001 [8 146, 9 946]	11 220 [10 074, 12 494]	11 518 [10 264, 12 873]	12 569 [11 505, 13 803]	10 101 [9 230, 11 059]	10 534 [9 904, 11 284]
	Males	13 157 [12 842, 13 497]	13 613 [12 394, 14 970]	16 382 [14 924, 17 848]	13 318 [11 714, 15 053]	16 171 [14 277, 18 327]	10 405 [9 020, 11 920]	11 906 [10 628, 13 265]	14 872 [13 570, 16 274]	13 649 [12 243, 15 214]	15 564 [14 290, 16 948]	12 880 [11 651, 14 282]	12 175 [11 379, 13 026]
	Both sexes	12 004 [11 797, 12 228]	12 569 [11 777, 13 394]	15 041 [14 084, 15 970]	12 418 [11 427, 13 540]	14 366 [13 149, 15 705]	9 637 [8 809, 10 521]	10 477 [9 650, 11 362]	13 089 [12 196, 13 995]	12 601 [11 645, 13 568]	14 066 [13 236, 14 931]	11 512 [10 733, 12 362]	11 358 [10 854, 11 907]
YLDs	Females	15 117 [11 209, 19 640]	15 008 [11 111, 19 537]	16 271 [12 071, 21 015]	15 322 [11 335, 19 868]	15 721 [11 674, 20 263]	14 865 [11 011, 19 262]	14 250 [10 560, 18 518]	15 026 [11 079, 19 574]	14 963 [11 084, 19 417]	15 742 [11 677, 20 384]	14 770 [10 908, 19 259]	15 129 [11 234, 19 660]
	Males	12 002 [8 941, 15 500]	11 927 [8 891, 15 409]	13 024 [9 718, 16 768]	12 378 [9 197, 15 891]	12 597 [9 373, 16 225]	11 345 [8 436, 14 686]	11 362 [8 447, 14 630]	12 063 [8 967, 15 502]	11 905 [8 843, 15 326]	12 594 [9 366, 16 244]	11 801 [8 760, 15 220]	12 044 [8 987, 15 521]
	Both sexes	13 546 [10 025, 17 500]	13 455 [10 012, 17 408]	14 644 [10 848, 18 842]	13 818 [10 240, 17 895]	14 134 [10 492, 18 225]	13 108 [9 708, 16 951]	12 782 [9 500, 16 541]	13 510 [10 002, 17 454]	13 409 [9 930, 17 338]	14 168 [10 518, 18 298]	13 262 [9 787, 17 193]	13 581 [10 088, 17 516]
DALYs	Females	25 947 [21 982, 30 579]	26 516 [22 315, 31 182]	29 966 [25 278, 34 939]	26 800 [22 669, 31 501]	28 223 [24 017, 32 916]	23 738 [19 696, 28 453]	23 251 [19 330, 27 425]	26 247 [22 253, 30 764]	26 480 [22 417, 31 148]	28 312 [24 028, 33 148]	24 870 [20 956, 29 351]	25 663 [21 748, 30 384]
	Males	25 159 [22 074, 28 731]	25 540 [22 178, 29 163]	29 405 [25 848, 33 575]	25 696 [22 021, 29 880]	28 768 [25 015, 32 940]	21 749 [18 361, 25 302]	23 268 [20 019, 26 820]	26 935 [23 469, 30 884]	25 554 [22 055, 29 387]	28 158 [24 423, 32 077]	24 681 [21 307, 28 313]	24 220 [21 013, 27 806]
	Both sexes	25 550 [22 089, 29 492]	26 024 [22 320, 30 015]	29 685 [25 736, 34 261]	26 236 [22 447, 30 441]	28 500 [24 773, 32 809]	22 745 [19 117, 26 639]	23 260 [19 913, 27 115]	26 599 [23 058, 30 678]	26 010 [22 322, 29 957]	28 235 [24 460, 32 520]	24 774 [21 194, 28 639]	24 939 [21 502, 29 068]

Table S4. Age-standardised all-cause YLL, YLD, and DALY rates per 100 000 inhabitants, 2019 [95% uncertainty interval]. Coloured cells indicate that the uncertainty interval of the county estimate does not overlap the uncertainty interval of the national estimate (red = county rate is above the national rate; blue = county rate is below the national rate).

	Norway	Agder	Innlandet	Møre og Romsdal	Nordland	Oslo	Rogaland	Troms og Finnmark	Trøndelag	Vestfold og Telemark	Vestland	Viken	
YLLs	Females	6 079 [5 923, 6 237]	6 525 [5 905, 7 288]	6 451 [5 874, 7 080]	5 813 [5 185, 6 508]	6 045 [5 348, 6 821]	6 132 [5 553, 6 771]	5 704 [5 162, 6 309]	6 247 [5 565, 7 008]	6 433 [5 883, 7 045]	5 676 [5 176, 6 224]	5 935 [5 584, 6 357]	
	Males	9 087 [8 865, 9 323]	9 413 [8 598, 10 330]	9 557 [8 723, 10 410]	8 554 [7 560, 9 644]	9 924 [8 770, 11 217]	8 861 [7 723, 10 126]	9 182 [8 241, 10 178]	10 313 [9 451, 11 260]	9 198 [8 261, 10 214]	9 807 [9 014, 10 654]	9 027 [8 169, 9 991]	8 353 [7 823, 8 905]
	Both sexes	7 536 [7 391, 7 691]	7 927 [7 421, 8 466]	7 956 [7 449, 8 469]	7 190 [6 621, 7 824]	7 961 [7 271, 8 733]	7 410 [6 776, 8 084]	7 393 [6 624, 8 027]	8 394 [7 801, 8 944]	7 687 [7 091, 8 289]	8 053 [7 568, 8 563]	7 307 [6 794, 7 860]	7 101 [6 781, 7 444]
YLDs	Females	12 086 [8 885, 15 765]	12 031 [8 852, 15 766]	12 089 [8 858, 15 696]	11 962 [8 790, 15 654]	12 017 [8 797, 15 660]	12 594 [9 290, 16 396]	11 965 [8 776, 15 620]	11 923 [8 707, 15 501]	11 983 [8 778, 15 628]	12 040 [8 829, 15 697]	11 920 [8 712, 15 646]	12 035 [8 822, 15 742]
	Males	9 814 [7 260, 12 677]	9 771 [7 248, 12 647]	9 837 [7 263, 12 693]	9 756 [7 216, 12 603]	9 751 [7 207, 12 640]	10 027 [7 433, 12 948]	9 752 [7 239, 12 573]	9 709 [7 172, 12 554]	9 740 [7 194, 12 533]	9 851 [7 280, 12 708]	9 754 [7 199, 12 628]	9 799 [7 253, 12 669]
	Both sexes	10 925 [8 055, 14 224]	10 879 [8 033, 14 080]	10 941 [8 062, 14 168]	10 814 [7 952, 14 032]	10 848 [7 989, 14 041]	11 303 [8 328, 14 645]	10 826 [7 984, 14 002]	10 771 [7 911, 13 996]	10 827 [7 947, 14 116]	10 930 [8 026, 14 182]	10 801 [7 940, 14 115]	10 900 [8 026, 14 160]
DALYs	Females	18 165 [14 875, 21 792]	18 556 [15 205, 22 491]	18 539 [15 109, 22 257]	17 775 [14 492, 21 490]	18 062 [14 793, 21 753]	18 726 [15 323, 22 753]	17 669 [14 359, 21 209]	18 445 [15 228, 22 170]	18 230 [15 009, 22 017]	18 473 [15 166, 22 273]	17 596 [14 405, 21 290]	17 969 [14 754, 21 672]
	Males	18 901 [16 338, 21 824]	19 185 [16 439, 22 138]	19 394 [16 742, 22 559]	18 310 [15 498, 21 585]	19 674 [16 885, 22 832]	18 888 [15 923, 22 000]	18 934 [16 245, 22 040]	20 022 [17 282, 23 174]	18 938 [16 188, 21 997]	19 658 [16 856, 22 708]	18 780 [16 059, 21 755]	18 152 [15 589, 21 136]
	Both sexes	18 461 [15 588, 21 713]	18 806 [15 771, 22 058]	18 897 [15 959, 22 206]	18 003 [15 016, 21 357]	18 808 [15 907, 22 121]	18 713 [15 591, 22 041]	18 219 [15 364, 21 498]	19 165 [16 268, 22 412]	18 514 [15 590, 21 799]	18 983 [16 002, 22 256]	18 108 [15 158, 21 360]	18 001 [15 155, 21 318]

Table S5. Number of all-cause YLLs, YLDs and DALYs in Norway and each Norwegian county, 2019 [95% uncertainty interval]

	Norway	Agder	Innlandet	Møre og Romsdal	Nordland	Oslo	Rogaland	Troms og Finnmark	Trøndelag	Vestfold og Telemark	Vestland	Viken
YLLs												
Females	287 071 [280 586, 293 936]	17 398 [15 729, 19 435]	26 483 [24 011, 29 050]	15 116 [13 506, 16 909]	15 009 [13 325, 16 844]	30 543 [27 667, 33 711]	21 271 [19 250, 23 504]	13 418 [12 047, 14 941]	26 205 [23 351, 29 287]	26 655 [24 398, 29 271]	31 833 [29 089, 34 854]	63 139 [59 364, 67 633]
Males	355 009 [346 510, 364 175]	20 918 [19 044, 23 003]	31 791 [28 963, 34 636]	18 307 [16 102, 20 691]	20 061 [17 711, 22 735]	35 690 [30 941, 40 887]	29 078 [25 958, 32 397]	18 641 [17 011, 20 399]	32 062 [28 760, 35 738]	32 990 [30 290, 35 924]	41 916 [37 918, 46 482]	73 555 [68 744, 78 696]
Both sexes	642 081 [630 983, 654 069]	38 316 [35 901, 40 831]	58 274 [54 568, 61 874]	33 424 [30 757, 36 443]	35 070 [32 099, 38 338]	66 233 [60 541, 72 303]	50 349 [46 374, 54 601]	32 060 [29 873, 34 281]	58 267 [53 849, 62 742]	59 645 [56 121, 63 312]	73 750 [68 754, 79 192]	136 694 [130 625, 143 297]
YLDs												
Females	400 675 [297 108, 520 564]	22 690 [16 798, 29 537]	31 464 [23 342, 40 638]	20 178 [14 927, 26 165]	18 875 [14 016, 24 327]	51 168 [37 903, 66 307]	33 676 [24 956, 43 761]	17 970 [13 249, 23 409]	34 042 [25 217, 44 177]	33 383 [24 761, 43 227]	46 548 [34 379, 60 698]	90 680 [67 334, 117 839]
Males	323 858 [241 250, 418 230]	18 327 [13 662, 23 678]	25 274 [18 860, 32 542]	17 015 [12 643, 21 844]	15 627 [11 627, 20 128]	38 915 [28 936, 50 378]	27 749 [20 631, 35 731]	15 121 [11 240, 19 431]	27 965 [20 773, 36 002]	26 695 [19 853, 34 431]	38 407 [28 510, 49 533]	72 763 [54 295, 93 768]
Both sexes	724 533 [536 216, 936 047]	41 018 [30 520, 53 067]	56 739 [42 030, 73 000]	37 193 [27 560, 48 165]	34 502 [25 612, 44 489]	90 084 [66 718, 116 494]	61 425 [45 652, 79 489]	33 091 [24 499, 42 753]	62 007 [45 918, 80 172]	60 078 [44 598, 77 587]	84 955 [62 695, 110 140]	163 443 [121 415, 210 801]
DALY												
Females	687 747 [582 649, 810 526]	40 088 [33 738, 47 143]	57 948 [48 882, 67 563]	35 294 [29 854, 41 486]	33 884 [28 835, 39 518]	81 712 [67 800, 97 943]	54 947 [45 680, 64 811]	31 389 [26 612, 36 792]	60 247 [51 002, 70 866]	60 038 [50 953, 70 294]	78 381 [66 044, 92 502]	153 819 [130 355, 182 116]
Males	678 867 [595 626, 775 234]	39 245 [34 079, 44 812]	57 065 [50 161, 65 158]	35 322 [30 271, 41 073]	35 688 [31 033, 40 863]	74 605 [62 983, 86 790]	56 827 [48 893, 65 503]	33 763 [29 418, 38 713]	60 028 [51 808, 69 031]	59 684 [51 768, 67 992]	80 323 [69 343, 92 144]	146 317 [126 944, 167 985]
Both sexes	1 366 614 [1 181 515, 1 577 492]	79 334 [68 042, 91 499]	115 013 [99 713, 132 743]	70 616 [60 417, 81 933]	69 572 [60 473, 80 092]	156 317 [131 386, 183 076]	111 773 [95 691, 130 302]	65 151 [56 478, 75 143]	120 274 [103 219, 138 527]	119 722 [103 716, 137 893]	158 705 [135 773, 183 467]	300 137 [258 778, 349 851]

Table S6. Percentage of DALYs attributed (PAF) to the top-10 level-2 risk factors in Norway and each Norwegian county in 2019. Age-standardised, both sexes combined. Values shown in parentheses indicate 95% uncertainty intervals.

	Malnutrition	High LDL	Drug use	Occupational risks	Alcohol use	Dietary risks	High body-mass index	High blood pressure	High fasting plasma glucose	Tobacco
Norway	1.8 [1.6, 2.1]	2.9 [2.2, 3.7]	2.5 [2.1, 2.9]	3.0 [2.7, 3.3]	3.7 [3.1, 4.3]	5.4 [4.6, 6.4]	5.1 [3.2, 7.2]	5.9 [4.9, 7.0]	5.9 [4.7, 7.5]	8.3 [7.3, 9.2]
Agder	1.7 [1.5, 2.0]	2.8 [2.1, 3.6]	2.2 [1.9, 2.6]	3.2 [2.8, 3.6]	3.6 [2.7, 4.6]	5.3 [4.5, 6.4]	5.1 [3.2, 7.2]	5.9 [4.8, 7.0]	6.4 [5.1, 8.1]	8.7 [7.6, 9.7]
Innlandet	1.8 [1.5, 2.1]	3.2 [2.5, 4.1]	2.2 [1.9, 2.5]	2.9 [2.6, 3.3]	3.5 [2.6, 4.6]	5.9 [5.0, 7.0]	5.4 [3.3, 7.5]	6.4 [5.3, 7.7]	6.8 [5.5, 8.7]	8.1 [7.2, 9.1]
Møre og Romsdal	2.0 [1.7, 2.4]	2.9 [2.2, 3.8]	1.9 [1.6, 2.3]	2.8 [2.4, 3.2]	3.4 [2.3, 4.5]	5.4 [4.6, 6.5]	5.2 [3.2, 7.3]	5.9 [4.8, 7.1]	6.2 [4.9, 8.1]	7.6 [6.6, 8.6]
Nordland	1.6 [1.3, 1.9]	3.3 [2.5, 4.2]	2.1 [1.8, 2.4]	2.9 [2.5, 3.3]	3.7 [2.5, 4.9]	5.9 [5.0, 7.1]	5.4 [3.4, 7.7]	6.5 [5.3, 7.9]	6.7 [5.3, 8.6]	8.4 [7.4, 9.5]
Oslo	1.8 [1.5, 2.2]	2.5 [1.9, 3.2]	3.2 [2.7, 3.8]	2.8 [2.5, 3.2]	4.4 [3.3, 5.5]	4.7 [3.9, 5.6]	5.0 [3.1, 7.0]	5.0 [4.0, 6.0]	4.6 [3.7, 6.0]	8.2 [7.1, 9.2]
Rogaland	1.9 [1.6, 2.2]	2.8 [2.1, 3.5]	2.5 [2.1, 2.9]	3.1 [2.7, 3.5]	3.6 [2.6, 4.7]	5.2 [4.4, 6.2]	4.8 [2.9, 6.9]	5.7 [4.6, 6.8]	5.7 [4.5, 7.2]	8.3 [7.2, 9.3]
Troms og Finnmark	2.4 [2.0, 2.8]	3.3 [2.6, 4.2]	1.8 [1.5, 2.1]	2.9 [2.6, 3.3]	3.4 [2.5, 4.4]	5.8 [4.9, 6.9]	5.1 [3.1, 7.2]	6.4 [5.3, 7.6]	6.4 [5.1, 8.1]	8.6 [7.6, 9.6]
Trøndelag	1.6 [1.3, 1.9]	3.3 [2.5, 4.2]	2.1 [1.8, 2.5]	2.8 [2.4, 3.2]	3.7 [2.6, 4.9]	5.7 [4.8, 7.0]	5.2 [3.3, 7.4]	6.9 [5.6, 8.3]	5.7 [4.5, 7.3]	9.4 [8.3, 10.6]
Vestfold og Telemark	1.8 [1.5, 2.1]	2.9 [2.2, 3.7]	2.6 [2.2, 3.0]	3.2 [2.9, 3.6]	3.7 [2.8, 4.8]	5.4 [4.6, 6.5]	5.1 [3.2, 7.1]	6.0 [4.9, 7.2]	6.1 [4.9, 7.8]	8.4 [7.5, 9.5]
Vestland	1.9 [1.6, 2.2]	3.0 [2.3, 3.8]	2.7 [2.3, 3.2]	3.0 [2.7, 3.4]	3.4 [2.6, 4.4]	5.5 [4.7, 6.5]	5.0 [3.1, 7.1]	5.9 [4.9, 7.1]	5.8 [4.6, 7.5]	7.9 [6.9, 8.9]
Viken	1.8 [1.6, 2.1]	2.7 [2.1, 3.5]	2.7 [2.2, 3.1]	3.0 [2.7, 3.4]	3.6 [2.9, 4.5]	5.2 [4.4, 6.2]	5.1 [3.2, 7.1]	5.6 [4.6, 6.7]	5.9 [4.7, 7.5]	7.9 [7.0, 8.9]

Appendix figures

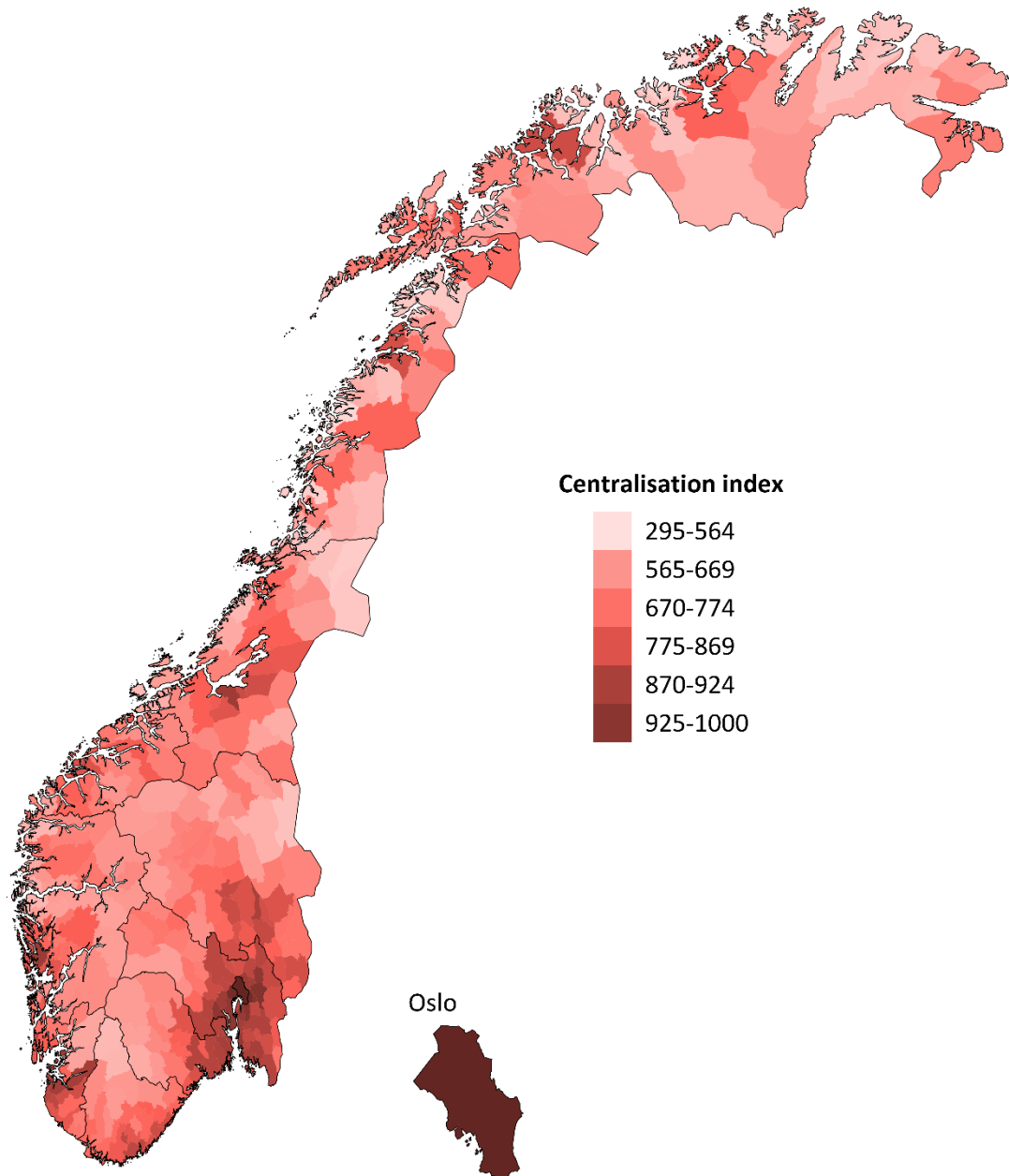


Figure S1. Map of Norway showing the 11 counties (black borders) and 356 municipalities (shaded areas). The background shade of each municipality reflects its degree of population centralisation, based on an index of all municipalities from the least-centralised (Utsira, 295) to the most centralised in Norway (Oslo, 1000).¹

1. Høydal E. The centralization index. Update with 2020-municipalities [in Norwegian]. Oslo: Statistics Norway, 2020.

https://www.ssb.no/befolkning/artikler-og-publikasjoner/_attachment/413602 (accessed June 6 2021).

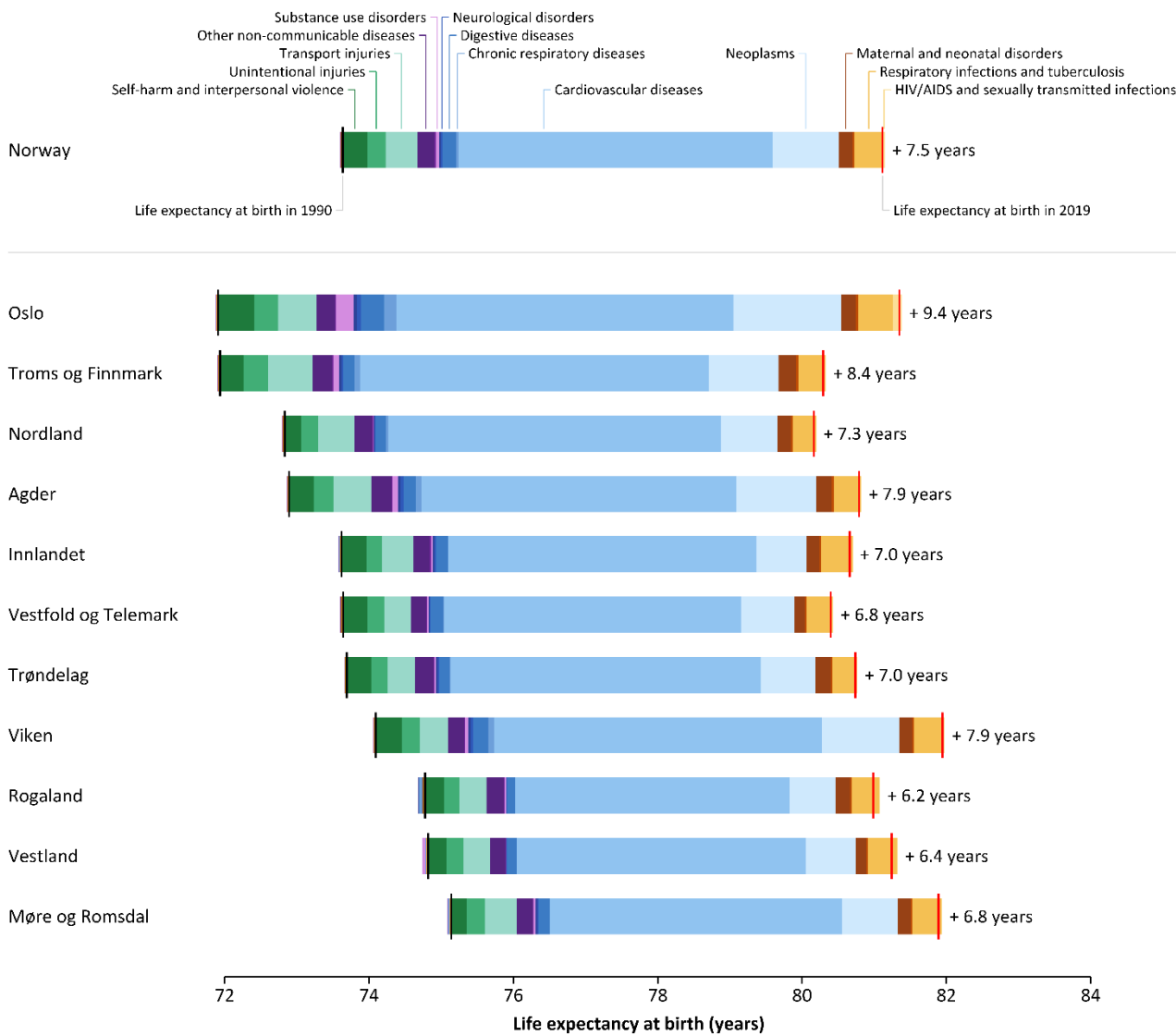


Figure S2. Change in life expectancy for males at birth in Norway and the 11 Norwegian counties between 1990 (black lines) and 2019 (red lines), decomposed into the contribution of GBD level 2 cause groups. Causes to the left of the 1990 life expectancy values reflect causes that contributed to reduced life expectancy between 1990 and 2019. Causes to the right of the 1990 life expectancy values reflect causes that contributed to increased life expectancy between 1990 and 2019.

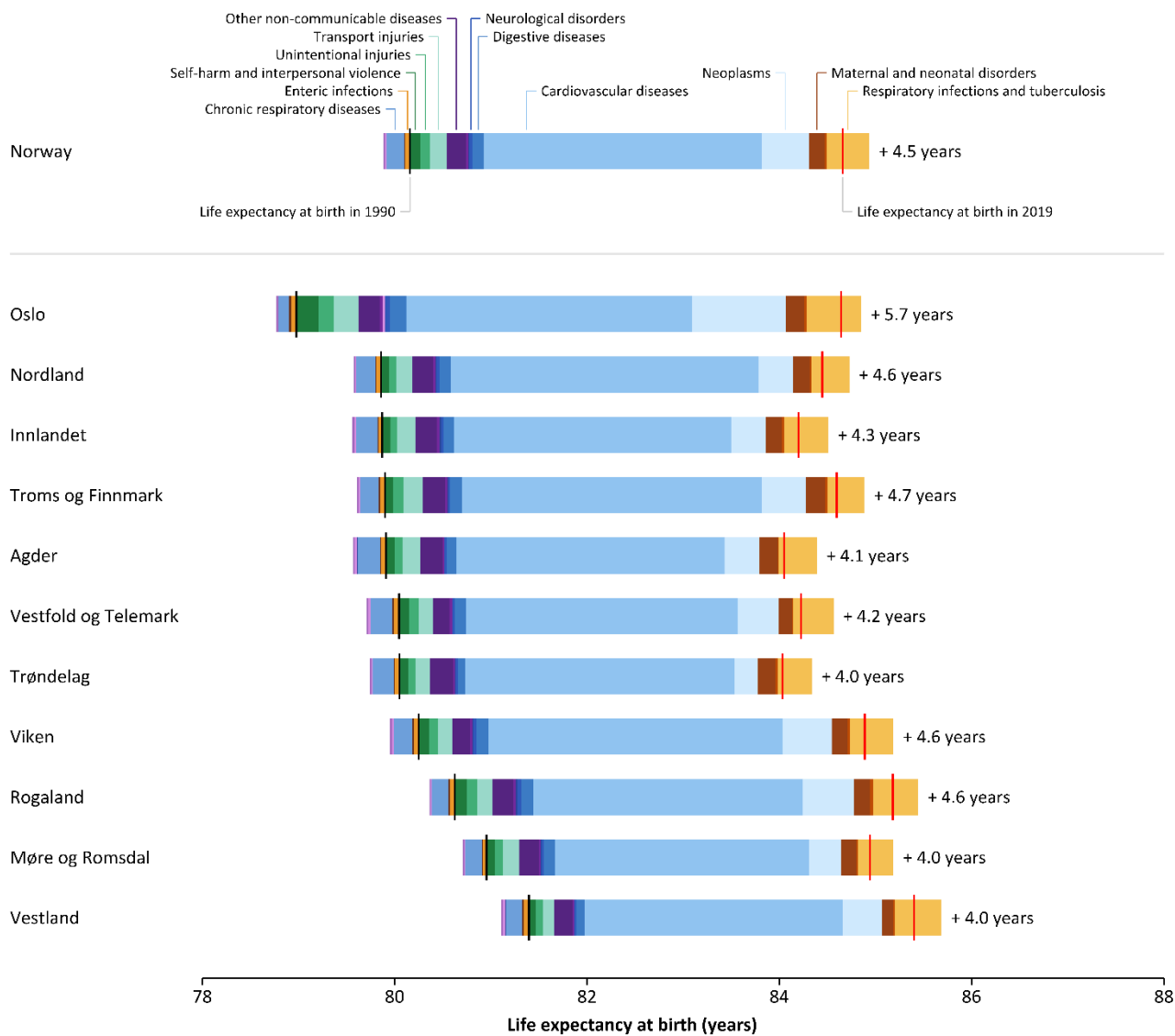


Figure S3. Change in life expectancy for females at birth in Norway and the 11 Norwegian counties between 1990 (black lines) and 2019 (red lines), decomposed into the contribution of GBD level 2 cause groups. Causes to the left of the 1990 life expectancy values reflect causes that contributed to reduced life expectancy between 1990 and 2019. Causes to the right of the 1990 life expectancy values reflect causes that contributed to increased life expectancy between 1990 and 2019.

Rank	Norway	DALY rate	[95% UI]	Change (%)	Agder	DALY rate	[95% UI]	Change (%)
1	Ischemic heart disease	1 237	[1 159, 1 314]	-75.4	Ischemic heart disease	1 149	[1 027, 1 283]	-76.9
2	Low back pain	841	[583, 1 141]	-5.2	Low back pain	840	[587, 1 143]	-5.2
3	Falls	699	[552, 899]	-11.6	COPD	749	[654, 837]	4.8
4	COPD	611	[551, 666]	11.4	Lung cancer	705 [622, 798]	↑	-42.2
5	Self-harm	595	[554, 636]	-46.2	Falls	700	[553, 891]	-10.6
6	Stroke	584	[528, 638]	-60.2	Diabetes mellitus	636	[476, 808]	8.8
7	Lung cancer	580	[540, 616]	-36.4	Self-harm	604	[527, 680]	-46.3
8	Drug use disorders	577	[482, 686]	49.9	Stroke	600	[528, 673]	-62.9
9	Diabetes mellitus	572	[434, 730]	9.0	Headache disorders	524	[86, 1 172]	13.1
10	Headache disorders	523	[88, 1 164]	12.9	Drug use disorders	519	[428, 626]	57.2

Rank	Innlandet	DALY rate	[95% UI]	Change (%)	Møre og Romsdal	DALY rate	[95% UI]	Change (%)
1	Ischemic heart disease	1 391	[1 256, 1 540]	-73.1	Ischemic heart disease	1 162	[1 008, 1 327]	-73.4
2	Low back pain	842	[582, 1 141]	-5.3	Low back pain	843	[579, 1 146]	-5.2
3	Self-harm	738 [656, 827]	↑	-42.4	Falls	708	[556, 916]	-12.7
4	Falls	703	[558, 902]	-11.8	Diabetes mellitus	594	[446, 762]	14.1
5	Stroke	675	[598, 755]	-58.4	Self-harm	550	[475, 636]	-36.6
6	Diabetes mellitus	660	[505, 836]	12.0	Stroke	549	[477, 628]	-57.8
7	COPD	654	[578, 733]	26.7	COPD	529	[455, 611]	23.7
8	Lung cancer	521	[460, 585]	-27.6	Headache disorders	524	[87, 1 167]	13.2
9	Headache disorders	508	[87, 1 127]	13.4	Lung cancer	523	[442, 619]	-28.3
10	Prostate cancer	507	[382, 630]	-17.5	Anxiety disorders	497	[347, 687]	-0.9

Rank	Nordland	DALY rate	[95% UI]	Change (%)	Oslo	DALY rate	[95% UI]	Change (%)
1	Ischemic heart disease	1 465	[1 279, 1 669]	-75.5	Ischemic heart disease	1 110	[950, 1 302]	-79.2
2	Low back pain	842	[587, 1 154]	-5.4	Low back pain	837	[587, 1 126]	-5.0
3	Self-harm	756 [654, 871]	↑	-31.5	Drug use disorders	750	[604, 919]	-7.5
4	Falls	714	[566, 904]	-2.7	Falls	722	[565, 915]	-19.5
5	Stroke	638	[557, 725]	-57.1	COPD	582	[496, 676]	-12.2
6	Diabetes mellitus	637	[483, 815]	14.9	Depressive disorders	554	[382, 768]	1.6
7	Lung cancer	634	[541, 738]	-32.7	Stroke	552	[472, 637]	-63.3
8	COPD	599	[512, 692]	22.9	Self-harm	531	[446, 634]	-58.1
9	Headache disorders	524	[85, 1 154]	13.0	Headache disorders	522	[87, 1 164]	13.3
10	Anxiety disorders	497	[352, 690]	-0.9	Lung cancer	507	[418, 604]	-55.2

Rank	Rogaland	DALY rate	[95% UI]	Change (%)	Troms og Finnmark	DALY rate	[95% UI]	Change (%)
1	Ischemic heart disease	1 184	[1 038, 1 333]	-73.3	Ischemic heart disease	1 479 [1 327, 1 638]	↑	-76.4
2	Low back pain	840	[584, 1 140]	-5.4	Low back pain	841	[587, 1 138]	-5.6
3	Falls	693	[539, 888]	-10.6	Falls	688	[545, 882]	-13.7
4	Lung cancer	675	[585, 779]	-23.7	Lung cancer	680	[602, 761]	-38.4
5	COPD	639	[549, 729]	21.6	COPD	639	[557, 723]	13.1
6	Drug use disorders	570	[466, 683]	62.9	Stroke	639	[570, 713]	-60.0
7	Self-harm	568	[495, 645]	-41.4	Self-harm	636	[561, 719]	-43.5
8	Diabetes mellitus	549	[417, 708]	16.3	Diabetes mellitus	603	[453, 769]	11.4
9	Headache disorders	524	[87, 1 156]	13.2	Headache disorders	524	[87, 1 156]	13.2
10	Stroke	522	[451, 595]	-56.4	Neonatal disorders	500 [407, 603]	↑	-65.6

Rank	Trøndelag	DALY rate	[95% UI]	Change (%)	Vestfold og Telemark	DALY rate	[95% UI]	Change (%)
1	Ischemic heart disease	1 374	[1 225, 1 548]	-74.2	Ischemic heart disease	1 257	[1 135, 1 397]	-74.4
2	Low back pain	840	[590, 1 137]	-5.1	Low back pain	841	[583, 1 145]	-5.3
3	Falls	664	[510, 864]	-7.0	Falls	746	[587, 950]	-12.1
4	Self-harm	632	[558, 720]	-46.3	COPD	717	[630, 803]	22.2
5	Stroke	629	[550, 710]	-58.5	Self-harm	708	[629, 793]	-42.0
6	Lung cancer	593	[514, 679]	-27.3	Lung cancer	658	[581, 739]	-31.9
7	COPD	578	[499, 661]	12.6	Diabetes mellitus	617	[468, 781]	10.7
8	Diabetes mellitus	544	[415, 691]	4.1	Stroke	603	[537, 671]	-59.9
9	Headache disorders	542	[94, 1 197]	13.4	Drug use disorders	603	[500, 727]	73.3
10	Anxiety disorders	496	[349, 684]	-1.1	Headache disorders	523	[88, 1 157]	13.1

Rank	Vestland	DALY rate	[95% UI]	Change (%)	Viken	DALY rate	[95% UI]	Change (%)
1	Ischemic heart disease	1 265	[1 121, 1 423]	-73.0	Ischemic heart disease	1 118	[1 022, 1 219]	-76.6
2	Low back pain	841	[588, 1 148]	-5.3	Low back pain	841	[584, 1 141]	-4.8
3	Falls	663	[518, 860]	-4.6	Falls	702	[548, 901]	-13.9
4	Drug use disorders	644	[536, 778]	80.3	Drug use disorders	597	[492, 719]	49.8
5	Lung cancer	603	[526, 689]	-26.3	COPD	567	[499, 630]	6.5
6	COPD	578	[500, 656]	12.1	Diabetes mellitus	561	[424, 717]	6.8
7	Stroke	556	[489, 626]	-56.7	Stroke	555	[495, 616]	-63.3
8	Self-harm	550	[481, 623]	-41.2	Self-harm	545	[488, 604]	-49.8
9	Diabetes mellitus	546	[413, 705]	17.5	Headache disorders	520	[88, 1 135]	11.8
10	Headache disorders	524	[88, 1 153]	13.0	Lung cancer	505	[454, 560]	-43.6

Communicable, maternal, neonatal, and nutritional diseases

Non-communicable diseases

Injuries

Figure S4. Age-standardised DALY rates per 100 000 male inhabitants in each county for the leading 10 level-3 causes in Norway and each Norwegian county, 2019. Bold rates indicate that the uncertainty interval of the county estimate does not overlap the uncertainty interval of the national estimate (upward arrow = county rate is above the national rate, downward arrow = county rate is below the national rate). Lung cancer = Tracheal, bronchus, and lung cancer, Dementia = Alzheimer's disease and other dementias, COPD = Chronic obstructive pulmonary disease, MSK = Musculoskeletal, Endocrine disorders = Endocrine, metabolic, blood, and immune disorders, DALY = Disability-Adjusted Life Years.

Rank	County	Disease	DALY rate	[95% UI]	Change (%)	Category
Norway						
1		Low back pain	1 065	[744, 1 434]	-4.0	Non-communicable diseases
2		Headache disorders	1 043	[168, 2 343]	12.9	Non-communicable diseases
3		Gynecological diseases	965	[654, 1 352]	-1.3	Non-communicable diseases
4		Anxiety disorders	798	[559, 1 094]	-8.6	Non-communicable diseases
5		Depressive disorders	671	[459, 918]	14.3	Non-communicable diseases
6		Falls	610	[462, 793]	6.7	Injuries
7		Endocrine disorders	550	[387, 745]	5.0	Non-communicable diseases
8		Ischemic heart disease	524	[460, 578]	-70.9	Non-communicable diseases
9		COPD	502	[331, 576]	72.7	Non-communicable diseases
10		Stroke	499	[439, 555]	-56.5	Non-communicable diseases
Agder						
1		Low back pain	1 067	[742, 1 440]	-3.9	Non-communicable diseases
2		Headache disorders	1 043	[172, 2 344]	13.4	Non-communicable diseases
3		Gynecological diseases	970	[653, 1 351]	-1.4	Non-communicable diseases
4		Anxiety disorders	796	[554, 1 090]	-9.0	Non-communicable diseases
5		Falls	612	[464, 798]	13.1	Injuries
6		Depressive disorders	606	[418, 838]	13.7	Non-communicable diseases
7		COPD	602	[365, 716]	69.6	Non-communicable diseases
8		Lung cancer	593	[512, 683]	↑ 53.6	Non-communicable diseases
9		Endocrine disorders	549	[383, 750]	5.5	Non-communicable diseases
10		Stroke	532	[456, 605]	-55.9	Non-communicable diseases
Innlandet						
1		Low back pain	1 066	[744, 1 432]	-4.1	Non-communicable diseases
2		Headache disorders	1 051	[171, 2 380]	11.1	Non-communicable diseases
3		Gynecological diseases	967	[654, 1 348]	-1.4	Non-communicable diseases
4		Anxiety disorders	797	[552, 1 091]	-8.9	Non-communicable diseases
5		Falls	623	[474, 814]	5.4	Injuries
6		Depressive disorders	606	[416, 840]	13.9	Non-communicable diseases
7		Ischemic heart disease	606	[513, 692]	-68.6	Non-communicable diseases
8		Stroke	577	[499, 651]	-54.9	Non-communicable diseases
9		Endocrine disorders	551	[387, 743]	5.6	Non-communicable diseases
10		COPD	533	[347, 631]	93.7	Non-communicable diseases
Møre og Romsdal						
1		Low back pain	1 067	[753, 1 445]	-4.2	Non-communicable diseases
2		Headache disorders	1 043	[168, 2 345]	13.4	Non-communicable diseases
3		Gynecological diseases	967	[658, 1 343]	-1.3	Non-communicable diseases
4		Anxiety disorders	800	[558, 1 097]	-8.5	Non-communicable diseases
5		Depressive disorders	606	[417, 831]	13.4	Non-communicable diseases
6		Falls	590	[445, 773]	4.8	Injuries
7		Endocrine disorders	553	[387, 763]	6.5	Non-communicable diseases
8		Ischemic heart disease	535	[459, 619]	-67.4	Non-communicable diseases
9		Stroke	495	[426, 568]	-54.8	Non-communicable diseases
10		Diabetes mellitus	464	[342, 613]	19.6	Non-communicable diseases
Nordland						
1		Low back pain	1 067	[747, 1 440]	-4.2	Non-communicable diseases
2		Headache disorders	1 043	[169, 2 363]	13.5	Non-communicable diseases
3		Gynecological diseases	972	[661, 1 357]	-1.1	Non-communicable diseases
4		Anxiety disorders	799	[559, 1 103]	-8.2	Non-communicable diseases
5		Depressive disorders	607	[417, 841]	13.9	Non-communicable diseases
6		Falls	595	[452, 777]	10.4	Injuries
7		Ischemic heart disease	570	[483, 652]	-72.7	Non-communicable diseases
8		Endocrine disorders	553	[388, 749]	6.9	Non-communicable diseases
9		COPD	509	[335, 605]	87.9	Non-communicable diseases
10		Lung cancer	501	[425, 589]	53.5	Non-communicable diseases
Oslo						
1		Depressive disorders	1 062	[724, 1 462]	5.4	Non-communicable diseases
2		Low back pain	1 059	[741, 1 431]	-3.9	Non-communicable diseases
3		Headache disorders	1 037	[170, 2 344]	13.5	Non-communicable diseases
4		Gynecological diseases	952	[650, 1 345]	-1.3	Non-communicable diseases
5		Anxiety disorders	795	[554, 1 090]	-8.2	Non-communicable diseases
6		Falls	635	[483, 825]	3.2	Injuries
7		Endocrine disorders	551	[390, 746]	2.5	Non-communicable diseases
8		COPD	521	[335, 621]	40.6	Non-communicable diseases
9		Lung cancer	496	[422, 579]	4.9	Non-communicable diseases
10		Asthma	466	[300, 700]	-38.2	Non-communicable diseases
Troms og Finnmark						
1		Low back pain	1 067	[752, 1 448]	-4.3	Non-communicable diseases
2		Headache disorders	1 043	[170, 2 332]	13.5	Non-communicable diseases
3		Gynecological diseases	949	[643, 1 325]	-2.0	Non-communicable diseases
4		Anxiety disorders	799	[559, 1 096]	-8.6	Non-communicable diseases
5		Depressive disorders	607	[414, 840]	13.9	Non-communicable diseases
6		Falls	582	[441, 759]	6.1	Injuries
7		Ischemic heart disease	566	[485, 652]	-71.3	Non-communicable diseases
8		Endocrine disorders	546	[388, 740]	3.7	Non-communicable diseases
9		Stroke	530	[456, 606]	-56.8	Non-communicable diseases
10		COPD	497	[322, 589]	89.2	Non-communicable diseases
Rogaland						
1		Low back pain	1 065	[744, 1 429]	-4.2	Non-communicable diseases
2		Headache disorders	1 043	[168, 2 345]	13.5	Non-communicable diseases
3		Gynecological diseases	960	[651, 1 342]	-1.3	Non-communicable diseases
4		Anxiety disorders	800	[557, 1 087]	-8.3	Non-communicable diseases
5		Depressive disorders	606	[413, 838]	13.7	Non-communicable diseases
6		Falls	599	[450, 782]	3.5	Injuries
7		Endocrine disorders	538	[372, 742]	4.1	Non-communicable diseases
8		Ischemic heart disease	481	[401, 558]	-71.4	Non-communicable diseases
9		COPD	479	[321, 574]	74.9	Non-communicable diseases
10		Lung cancer	442	[377, 511]	46.5	Non-communicable diseases
Trøndelag						
1		Low back pain	1 065	[749, 1 441]	-3.8	Non-communicable diseases
2		Headache disorders	1 057	[176, 2 353]	13.3	Non-communicable diseases
3		Gynecological diseases	973	[655, 1 361]	-0.8	Non-communicable diseases
4		Anxiety disorders	797	[556, 1 093]	-9.3	Non-communicable diseases
5		Depressive disorders	607	[416, 835]	14.0	Non-communicable diseases
6		Ischemic heart disease	586	[497, 673]	-69.6	Non-communicable diseases
7		Falls	577	[435, 765]	11.8	Injuries
8		Stroke	559	[483, 632]	-54.3	Non-communicable diseases
9		Endocrine disorders	548	[380, 750]	6.0	Non-communicable diseases
10		COPD	528	[352, 634]	76.8	Non-communicable diseases
Vestfold og Telemark						
1		Low back pain	1 067	[743, 1 439]	-4.0	Non-communicable diseases
2		Headache disorders	1 042	[168, 2 341]	13.4	Non-communicable diseases
3		Gynecological diseases	967	[652, 1 354]	-1.3	Non-communicable diseases
4		Anxiety disorders	798	[555, 1 100]	-8.8	Non-communicable diseases
5		Falls	630	[481, 817]	1.7	Injuries
6		Depressive disorders	606	[416, 833]	14.0	Non-communicable diseases
7		COPD	564	[352, 663]	81.3	Non-communicable diseases
8		Endocrine disorders	559	[395, 756]	6.3	Non-communicable diseases
9		Ischemic heart disease	545	[467, 622]	-69.6	Non-communicable diseases
10		Stroke	516	[448, 586]	-56.0	Non-communicable diseases
Vestland						
1		Low back pain	1 067	[751, 1 447]	-4.0	Non-communicable diseases
2		Headache disorders	1 042	[171, 2 337]	13.3	Non-communicable diseases
3		Gynecological diseases	971	[659, 1 369]	-0.9	Non-communicable diseases
4		Anxiety disorders	800	[561, 1 084]	-8.3	Non-communicable diseases
5		Depressive disorders	611	[418, 838]	13.9	Non-communicable diseases
6		Falls	578	[436, 757]	13.7	Injuries
7		Endocrine disorders	552	[384, 759]	6.4	Non-communicable diseases
8		Ischemic heart disease	505	[426, 579]	-68.9	Non-communicable diseases
9		Stroke	454	[391, 516]	-53.1	Non-communicable diseases
10		Diabetes mellitus	435	[319, 579]	24.7	Non-communicable diseases
Viken						
1		Low back pain	1 066	[747, 1 437]	-3.8	Non-communicable diseases
2		Headache disorders	1 039	[168, 2 350]	12.0	Non-communicable diseases
3		Gynecological diseases	966	[655, 1 343]	-1.2	Non-communicable diseases
4		Anxiety disorders	798	[556, 1 092]	-8.4	Non-communicable diseases
5		Falls	630	[478, 819]	5.7	Injuries
6		Depressive disorders	607	[417, 833]	13.9	Non-communicable diseases
7		Endocrine disorders	552	[389, 748]	4.3	Non-communicable diseases
8		COPD	509	[332, 596]	77.9	Non-communicable diseases
9		Ischemic heart disease	497	[433, 561]	-72.0	Non-communicable diseases
10		Stroke	490	[425, 554]	-59.1	Non-communicable diseases

■ Non-communicable diseases
■ Injuries

Figure S5. Age-standardised DALY rates per 100 000 female inhabitants in each county for the leading 10 level-3 causes in Norway and each Norwegian county, 2019. Bold rates indicate that the uncertainty interval of the county estimate does not overlap the uncertainty interval of the national estimate (upward arrow = county rate is above the national rate, downward arrow = county rate is below the national rate). Lung cancer = Tracheal, bronchus, and lung cancer, Dementia = Alzheimer's disease and other dementias, COPD = Chronic obstructive pulmonary disease, MSK = Musculoskeletal, Endocrine disorders = Endocrine, metabolic, blood, and immune disorders, DALY = Disability-Adjusted Life Years.

Rank	County	YLL rate	[95% UI]	Change (%)	Category
Norway					
1	Ischemic heart disease	811	[745, 871]	-74.8	Non-communicable diseases
2	Lung cancer	511	[482, 537]	-12.7	Non-communicable diseases
3	Self-harm	416	[389, 443]	-43.8	Injuries
4	Stroke	378	[341, 411]	-66.2	Non-communicable diseases
5	Colon and rectum cancer	367	[341, 390]	-20.0	Non-communicable diseases
6	COPD	350	[268, 381]	48.6	Non-communicable diseases
7	Dementia	209	[51, 542]	-9.2	Non-communicable diseases
8	Drug use disorders	196	[179, 226]	70.0	Non-communicable diseases
9	Breast cancer	192	[178, 207]	-45.0	Non-communicable diseases
10	Congenital birth defects	185	[153, 277]	-64.3	Non-communicable diseases
Agder					
1	Ischemic heart disease	764	[690, 846]	-75.8	Non-communicable diseases
2	Lung cancer	635	[571, 711]	↑ -16.4	Non-communicable diseases
3	COPD	448	[326, 510]	38.4	Non-communicable diseases
4	Self-harm	430	[383, 474]	-42.4	Injuries
5	Stroke	401	[355, 450]	-66.9	Non-communicable diseases
6	Colon and rectum cancer	366	[328, 406]	-17.6	Non-communicable diseases
7	Breast cancer	210	[181, 242]	-40.5	Non-communicable diseases
8	Dementia	207	[50, 556]	-8.9	Non-communicable diseases
9	Lower respiratory infections	202	[176, 225]	-60.6	Communicable, maternal, neonatal, and nutritional diseases
10	Pancreatic cancer	185	[165, 206]	2.3	Non-communicable diseases
Innlandet					
1	Ischemic heart disease	926	[832, 1 021]	-72.7	Non-communicable diseases
2	Self-harm	498	[449, 547]	↑ -39.7	Injuries
3	Lung cancer	472	[426, 521]	-0.9	Non-communicable diseases
4	Stroke	455	[404, 508]	-63.9	Non-communicable diseases
5	COPD	380	[288, 431]	70.3	Non-communicable diseases
6	Colon and rectum cancer	337	[302, 372]	-15.0	Non-communicable diseases
7	Congenital birth defects	207	[170, 291]	-63.9	Non-communicable diseases
8	Dementia	205	[50, 549]	-8.3	Non-communicable diseases
9	Prostate cancer	199	[150, 248]	-20.9	Non-communicable diseases
10	Lower respiratory infections	197	[172, 218]	-64.3	Communicable, maternal, neonatal, and nutritional diseases
Møre og Romsdal					
1	Ischemic heart disease	789	[701, 891]	-72.2	Non-communicable diseases
2	Lung cancer	443	[392, 499]	-3.4	Non-communicable diseases
3	Self-harm	369	[328, 418]	-36.9	Injuries
4	Colon and rectum cancer	365	[321, 411]	-15.5	Non-communicable diseases
5	Stroke	362	[313, 412]	-64.6	Non-communicable diseases
6	COPD	282	[223, 328]	68.4	Non-communicable diseases
7	Congenital birth defects	209	[170, 305]	-60.1	Non-communicable diseases
8	Dementia	206	[51, 569]	-9.8	Non-communicable diseases
9	Neonatal disorders	197	[144, 246]	-66.2	Communicable, maternal, neonatal, and nutritional diseases
10	Road injuries	190	[166, 216]	↑ -66.6	Injuries
Nordland					
1	Ischemic heart disease	949	[830, 1 065]	-75.2	Non-communicable diseases
2	Lung cancer	555	[492, 627]	-8.2	Non-communicable diseases
3	Self-harm	486	[429, 551]	-31.8	Injuries
4	Stroke	402	[347, 458]	-64.7	Non-communicable diseases
5	Colon and rectum cancer	377	[333, 426]	-12.2	Non-communicable diseases
6	COPD	345	[257, 401]	66.4	Non-communicable diseases
7	Dementia	208	[51, 554]	-8.0	Non-communicable diseases
8	Pancreatic cancer	199	[172, 229]	0.6	Non-communicable diseases
9	Prostate cancer	191	[152, 267]	-15.0	Non-communicable diseases
10	Road injuries	185	[161, 214]	-65.1	Injuries
Oslo					
1	Ischemic heart disease	707	[608, 809]	-78.4	Non-communicable diseases
2	Lung cancer	491	[433, 555]	-33.7	Non-communicable diseases
3	Self-harm	403	[351, 461]	-55.6	Injuries
4	Stroke	348	[295, 398]	-68.9	Non-communicable diseases
5	Colon and rectum cancer	345	[299, 398]	-36.1	Non-communicable diseases
6	COPD	345	[239, 412]	15.4	Non-communicable diseases
7	Drug use disorders	276	[230, 346]	↑ -8.8	Non-communicable diseases
8	Dementia	240	[61, 624]	-7.5	Non-communicable diseases
9	Breast cancer	210	[179, 243]	-53.9	Non-communicable diseases
10	Lower respiratory infections	186	[157, 216]	-68.2	Communicable, maternal, neonatal, and nutritional diseases
Troms og Finnmark					
1	Ischemic heart disease	958	[863, 1 056]	-75.7	Non-communicable diseases
2	Lung cancer	558	[504, 617]	-17.0	Non-communicable diseases
3	Self-harm	433	[389, 480]	-41.0	Injuries
4	Stroke	421	[370, 471]	-65.5	Non-communicable diseases
5	COPD	361	[277, 413]	54.3	Non-communicable diseases
6	Colon and rectum cancer	343	[307, 376]	-15.0	Non-communicable diseases
7	Neonatal disorders	322	[255, 399]	↑ -72.8	Communicable, maternal, neonatal, and nutritional diseases
8	Congenital birth defects	296	[238, 389]	-65.8	Non-communicable diseases
9	Pancreatic cancer	219	[195, 244]	↑ -0.4	Non-communicable diseases
10	Dementia	205	[50, 546]	-7.1	Non-communicable diseases
Trøndelag					
1	Ischemic heart disease	906	[812, 1 006]	-73.5	Non-communicable diseases
2	Lung cancer	521	[465, 576]	-0.4	Non-communicable diseases
3	Self-harm	428	[384, 478]	-43.5	Injuries
4	Stroke	426	[371, 480]	-63.8	Non-communicable diseases
5	Colon and rectum cancer	389	[346, 433]	-16.0	Non-communicable diseases
6	COPD	347	[259, 407]	54.2	Non-communicable diseases
7	Dementia	204	[49, 543]	-8.6	Non-communicable diseases
8	Pancreatic cancer	201	[176, 227]	3.2	Non-communicable diseases
9	Breast cancer	198	[170, 230]	-42.3	Non-communicable diseases
10	Prostate cancer	195	[157, 270]	-14.5	Non-communicable diseases
Vestfold og Telemark					
1	Ischemic heart disease	828	[741, 912]	-73.7	Non-communicable diseases
2	Lung cancer	570	[520, 624]	-8.0	Non-communicable diseases
3	Self-harm	496	[447, 550]	↑ -39.2	Injuries
4	COPD	416	[305, 471]	64.2	Non-communicable diseases
5	Stroke	394	[349, 442]	-65.6	Non-communicable diseases
6	Colon and rectum cancer	373	[336, 410]	-16.6	Non-communicable diseases
7	Drug use disorders	206	[180, 243]	109.5	Non-communicable diseases
8	Dementia	206	[51, 533]	-9.2	Non-communicable diseases
9	Breast cancer	199	[175, 228]	-41.9	Non-communicable diseases
10	Congenital birth defects	195	[159, 287]	-59.7	Non-communicable diseases
Vestland					
1	Ischemic heart disease	815	[728, 906]	-72.5	Non-communicable diseases
2	Lung cancer	492	[442, 541]	-1.8	Non-communicable diseases
3	Colon and rectum cancer	410	[366, 456]	-17.0	Non-communicable diseases
4	Self-harm	391	[350, 434]	-37.8	Injuries
5	Stroke	343	[298, 385]	-63.7	Non-communicable diseases
6	COPD	308	[250, 351]	45.3	Non-communicable diseases
7	Drug use disorders	222	[189, 270]	118.9	Non-communicable diseases
8	Dementia	206	[51, 556]	-8.6	Non-communicable diseases
9	Congenital birth defects	199	[164, 291]	-60.7	Non-communicable diseases
10	Prostate cancer	188	[150, 261]	-10.5	Non-communicable diseases
Viken					
1	Ischemic heart disease	738	[674, 809]	-76.1	Non-communicable diseases
2	Lung cancer	475	[439, 512]	-18.6	Non-communicable diseases
3	Self-harm	387	[354, 424]	-46.4	Injuries
4	Stroke	359	[324, 398]	-69.1	Non-communicable diseases
5	Colon and rectum cancer	350	[320, 381]	-22.1	Non-communicable diseases
6	COPD	330	[244, 368]	46.3	Non-communicable diseases
7	Dementia	204	[51, 525]	-8.2	Non-communicable diseases
8	Drug use disorders	198	[174, 237]	70.8	Non-communicable diseases
9	Breast cancer	190	[171, 213]	-45.5	Non-communicable diseases
10	Congenital birth defects	174	[140, 274]	-64.3	Non-communicable diseases

■ Communicable, maternal, neonatal, and nutritional diseases
■ Non-communicable diseases
■ Injuries

Figure S6. Age-standardised YLL rates per 100 000 female inhabitants in each county for the leading 10 level-3 causes in Norway and each Norwegian county, 2019. Bold rates indicate that the uncertainty interval of the county estimate does not overlap the uncertainty interval of the national estimate (upward arrow = county rate is above the national rate, downward arrow = county rate is below the national rate). Lung cancer = Tracheal, bronchus, and lung cancer, Dementia = Alzheimer's disease and other dementias, COPD = Chronic obstructive pulmonary disease, MSK = Musculoskeletal, Endocrine disorders = Endocrine, metabolic, blood, and immune disorders, YLL = Years of Lost Life.

Rank	County	YLL rate	[95% UI]	Change (%)	Category
Norway					
1	Ischemic heart disease	1 154	[1 084, 1 231]	-76.6	Non-communicable diseases
2	Self-harm	588	[546, 629]	-46.3	Injuries
3	Lung cancer	571	[532, 606]	-36.7	Non-communicable diseases
4	Stroke	421	[388, 452]	-67.7	Non-communicable diseases
5	Colon and rectum cancer	413	[381, 440]	-23.7	Non-communicable diseases
6	COPD	408	[375, 444]	13.1	Non-communicable diseases
7	Prostate cancer	408	[332, 539]	-23.5	Non-communicable diseases
8	Drug use disorders	299	[271, 359]	66.5	Non-communicable diseases
9	Road injuries	225	[213, 238]	-71.2	Injuries
10	Lower respiratory infections	224	[202, 240]	-63.8	Communicable, maternal, neonatal, and nutritional diseases
Agder					
1	Ischemic heart disease	1 067	[948, 1 200]	-78.1	Non-communicable diseases
2	Lung cancer	693	[610, 786]	↑ -42.5	Non-communicable diseases
3	Self-harm	597	[519, 674]	-46.4	Injuries
4	COPD	526	[454, 603]	↑ 4.3	Non-communicable diseases
5	Stroke	437	[387, 493]	-69.8	Non-communicable diseases
6	Prostate cancer	411	[328, 554]	-26.0	Non-communicable diseases
7	Colon and rectum cancer	394	[345, 447]	-25.3	Non-communicable diseases
8	Drug use disorders	270	[230, 337]	97.7	Non-communicable diseases
9	Road injuries	270	[234, 327]	-71.9	Injuries
10	Lower respiratory infections	232	[204, 261]	-63.1	Communicable, maternal, neonatal, and nutritional diseases
Innlandet					
1	Ischemic heart disease	1 307	[1 175, 1 450]	-74.2	Non-communicable diseases
2	Self-harm	730	[648, 817]	↑ -42.5	Injuries
3	Lung cancer	512	[452, 575]	-27.9	Non-communicable diseases
4	Stroke	505	[448, 566]	-65.2	Non-communicable diseases
5	COPD	445	[382, 513]	32.7	Non-communicable diseases
6	Prostate cancer	440	[333, 544]	-22.9	Non-communicable diseases
7	Colon and rectum cancer	382	[335, 435]	-19.1	Non-communicable diseases
8	Road injuries	270	[241, 305]	↑ -70.1	Injuries
9	Lower respiratory infections	247	[218, 276]	-64.5	Communicable, maternal, neonatal, and nutritional diseases
10	Drug use disorders	241	[204, 300]	119.7	Non-communicable diseases
Møre og Romsdal					
1	Ischemic heart disease	1 079	[927, 1 242]	-74.7	Non-communicable diseases
2	Self-harm	543	[468, 628]	-36.7	Injuries
3	Lung cancer	514	[433, 610]	-28.7	Non-communicable diseases
4	Colon and rectum cancer	392	[331, 460]	-18.9	Non-communicable diseases
5	Stroke	386	[329, 451]	-66.2	Non-communicable diseases
6	Prostate cancer	379	[299, 540]	-24.1	Non-communicable diseases
7	COPD	336	[280, 401]	30.7	Non-communicable diseases
8	Road injuries	281	[240, 326]	↑ -63.9	Injuries
9	Neonatal disorders	220	[151, 280]	-66.2	Communicable, maternal, neonatal, and nutritional diseases
10	Congenital birth defects	208	[162, 334]	-61.5	Communicable, maternal, neonatal, and nutritional diseases
Nordland					
1	Ischemic heart disease	1 378	[1 192, 1 581]	-76.6	Non-communicable diseases
2	Self-harm	748	[648, 863]	↑ -31.6	Injuries
3	Lung cancer	624	[532, 729]	-33.0	Non-communicable diseases
4	Stroke	470	[401, 545]	-64.4	Non-communicable diseases
5	Colon and rectum cancer	438	[372, 512]	-14.7	Non-communicable diseases
6	Prostate cancer	417	[330, 578]	-21.9	Non-communicable diseases
7	COPD	396	[324, 473]	26.6	Non-communicable diseases
8	Road injuries	286	[241, 338]	↑ -62.8	Injuries
9	Drug use disorders	255	[208, 325]	178.2	Non-communicable diseases
10	Lower respiratory infections	234	[197, 271]	-59.4	Communicable, maternal, neonatal, and nutritional diseases
Oslo					
1	Ischemic heart disease	1 031	[871, 1 220]	-80.4	Non-communicable diseases
2	Self-harm	525	[440, 628]	-58.2	Injuries
3	Lung cancer	500	[411, 598]	-55.4	Non-communicable diseases
4	Drug use disorders	425	[341, 566]	-13.7	Non-communicable diseases
5	Prostate cancer	402	[315, 561]	-28.4	Non-communicable diseases
6	Stroke	395	[326, 471]	-70.5	Non-communicable diseases
7	Colon and rectum cancer	389	[320, 470]	-40.4	Non-communicable diseases
8	COPD	382	[306, 462]	-16.8	Non-communicable diseases
9	Lower respiratory infections	239	[199, 283]	-67.9	Communicable, maternal, neonatal, and nutritional diseases
10	Dementia	218	[52, 579]	-6.3	Non-communicable diseases
Troms og Finnmark					
1	Ischemic heart disease	1 398	[1 249, 1 558]	↑ -77.4	Non-communicable diseases
2	Lung cancer	670	[593, 750]	-38.7	Non-communicable diseases
3	Self-harm	629	[555, 713]	-43.6	Injuries
4	Stroke	475	[419, 537]	-66.7	Non-communicable diseases
5	COPD	433	[366, 500]	13.7	Non-communicable diseases
6	Colon and rectum cancer	384	[337, 433]	-19.9	Non-communicable diseases
7	Prostate cancer	369	[301, 530]	-19.4	Non-communicable diseases
8	Neonatal disorders	353	[271, 449]	↑ -73.3	Communicable, maternal, neonatal, and nutritional diseases
9	Road injuries	297	[264, 335]	↑ -71.7	Injuries
10	Congenital birth defects	284	[216, 407]	-67.3	Communicable, maternal, neonatal, and nutritional diseases
Trøndelag					
1	Ischemic heart disease	1 288	[1 141, 1 468]	-75.3	Non-communicable diseases
2	Self-harm	618	[543, 703]	-46.6	Injuries
3	Lung cancer	585	[507, 671]	-27.5	Non-communicable diseases
4	Stroke	462	[404, 534]	-65.7	Non-communicable diseases
5	Colon and rectum cancer	429	[368, 500]	-22.9	Non-communicable diseases
6	Prostate cancer	428	[346, 591]	-21.3	Non-communicable diseases
7	COPD	379	[321, 449]	15.3	Non-communicable diseases
8	Drug use disorders	248	[203, 310]	125.1	Non-communicable diseases
9	Road injuries	236	[201, 274]	-66.2	Injuries
10	Lower respiratory infections	228	[194, 263]	-59.8	Communicable, maternal, neonatal, and nutritional diseases
Vestfold og Telemark					
1	Ischemic heart disease	1 175	[1 052, 1 311]	-75.6	Non-communicable diseases
2	Self-harm	700	[621, 785]	-42.0	Injuries
3	Lung cancer	647	[571, 727]	-32.1	Non-communicable diseases
4	COPD	498	[433, 571]	27.9	Non-communicable diseases
5	Stroke	439	[388, 493]	-67.2	Non-communicable diseases
6	Colon and rectum cancer	437	[384, 492]	-19.1	Non-communicable diseases
7	Prostate cancer	428	[337, 555]	-17.9	Non-communicable diseases
8	Drug use disorders	318	[271, 386]	106.4	Non-communicable diseases
9	Lower respiratory infections	232	[205, 259]	-61.9	Communicable, maternal, neonatal, and nutritional diseases
10	Road injuries	220	[195, 245]	-68.9	Injuries
Vestland					
1	Ischemic heart disease	1 179	[1 043, 1 334]	-74.3	Non-communicable diseases
2	Lung cancer	594	[518, 680]	-26.6	Non-communicable diseases
3	Self-harm	544	[474, 617]	-41.3	Injuries
4	Colon and rectum cancer	469	[410, 537]	-18.3	Non-communicable diseases
5	Prostate cancer	418	[331, 574]	-18.7	Non-communicable diseases
6	Stroke	396	[345, 452]	-64.8	Non-communicable diseases
7	COPD	394	[332, 457]	15.9	Non-communicable diseases
8	Drug use disorders	347	[290, 436]	116.5	Non-communicable diseases
9	Lower respiratory infections	216	[187, 246]	-63.2	Communicable, maternal, neonatal, and nutritional diseases
10	Road injuries	211	[185, 241]	-66.7	Injuries
Viken					
1	Ischemic heart disease	1 036	[944, 1 138]	-77.9	Non-communicable diseases
2	Self-harm	539	[481, 598]	-49.9	Injuries
3	Lung cancer	497	[447, 552]	-43.8	Non-communicable diseases
4	Stroke	392	[352, 432]	-70.8	Non-communicable diseases
5	Prostate cancer	383	[307, 509]	-27.1	Non-communicable diseases
6	Colon and rectum cancer	383	[341, 425]	-27.7	Non-communicable diseases
7	COPD	364	[319, 408]	5.9	Non-communicable diseases
8	Drug use disorders	297	[257, 370]	63.1	Non-communicable diseases
9	Road injuries	218	[195, 241]	-71.6	Injuries
10	Lower respiratory infections	206	[181, 228]	-64.8	Communicable, maternal, neonatal, and nutritional diseases

■ Communicable, maternal, neonatal, and nutritional diseases
■ Non-communicable diseases
■ Injuries

Figure S7. Age-standardised YLL rates per 100 000 male inhabitants in each county for the leading 10 level-3 causes in Norway and each Norwegian county, 2019. Bold rates indicate that the uncertainty interval of the county estimate does not overlap the uncertainty interval of the national estimate (upward arrow = county rate is above the national rate, downward arrow = county rate is below the national rate). Lung cancer = Tracheal, bronchus, and lung cancer, Dementia = Alzheimer's disease and other dementias, COPD = Chronic obstructive pulmonary disease, MSK = Musculoskeletal, Endocrine disorders = Endocrine, metabolic, blood, and immune disorders, YLL = Years of Lost Life.

Rank	County	YLL rate	[95% UI]	Change (%)	Category
Norway					
1	Ischemic heart disease	488	[423, 543]	-72.1	Non-communicable diseases
2	Lung cancer	460	[429, 489]	44.2	Non-communicable diseases
3	Breast cancer	371	[344, 400]	-43.1	Non-communicable diseases
4	Stroke	336	[296, 377]	-65.4	Non-communicable diseases
5	Colon and rectum cancer	326	[298, 354]	-17.4	Non-communicable diseases
6	COPD	306	[142, 349]	107.1	Non-communicable diseases
7	Self-harm	236	[221, 255]	-37.2	Injuries
8	Dementia	224	[57, 570]	-8.5	Non-communicable diseases
9	Congenital birth defects	189	[158, 276]	-62.2	Communicable, maternal, neonatal, and nutritional diseases
10	Ovarian cancer	187	[170, 208]	-25.4	Non-communicable diseases
Agder					
	Lung cancer	585	[503, 674]	↑	Non-communicable diseases
	Ischemic heart disease	481	[407, 564]	-71.6	Non-communicable diseases
	Breast cancer	402	[345, 464]	-38.1	Non-communicable diseases
	COPD	386	[161, 483]	99.9	Non-communicable diseases
	Stroke	365	[309, 429]	-64.5	Non-communicable diseases
	Colon and rectum cancer	341	[294, 398]	-9.6	Non-communicable diseases
	Self-harm	253	[221, 293]	-30.5	Injuries
	Dementia	222	[55, 581]	-8.1	Non-communicable diseases
	Ovarian cancer	205	[175, 241]	-19.1	Non-communicable diseases
	Congenital birth defects	181	[148, 272]	-65.9	Communicable, maternal, neonatal, and nutritional diseases
Innlandet					
1	Ischemic heart disease	571	[477, 657]	-69.7	Non-communicable diseases
2	Lung cancer	439	[380, 507]	64.4	Non-communicable diseases
3	Stroke	407	[344, 472]	-62.9	Non-communicable diseases
4	Breast cancer	355	[310, 406]	-38.1	Non-communicable diseases
5	COPD	331	[153, 407]	145.6	Non-communicable diseases
6	Colon and rectum cancer	296	[256, 336]	-10.6	Non-communicable diseases
7	Self-harm	253	[223, 284]	-30.8	Injuries
8	Dementia	221	[56, 579]	-8.0	Non-communicable diseases
9	Ovarian cancer	217	[186, 251]	-23.2	Non-communicable diseases
10	Congenital birth defects	216	[176, 300]	-61.8	Communicable, maternal, neonatal, and nutritional diseases
Møre og Romsdal					
	Ischemic heart disease	499	[423, 585]	-68.6	Non-communicable diseases
	Lung cancer	376	[318, 444]	62.2	Non-communicable diseases
	Breast cancer	358	[302, 426]	-41.1	Non-communicable diseases
	Colon and rectum cancer	338	[287, 395]	-13.7	Non-communicable diseases
	Stroke	333	[280, 393]	-64.0	Non-communicable diseases
	COPD	239	[125, 303]	130.9	Non-communicable diseases
	Dementia	224	[55, 591]	-8.6	Non-communicable diseases
	Congenital birth defects	211	[172, 310]	-58.6	Communicable, maternal, neonatal, and nutritional diseases
	Self-harm	179	[149, 210]	-39.0	Injuries
	Neonatal disorders	173	[123, 213]	-66.0	Communicable, maternal, neonatal, and nutritional diseases
Nordland					
1	Ischemic heart disease	533	[449, 617]	-73.8	Non-communicable diseases
2	Lung cancer	493	[419, 581]	52.9	Non-communicable diseases
3	Breast cancer	339	[284, 399]	-40.4	Non-communicable diseases
4	Stroke	335	[281, 392]	-66.1	Non-communicable diseases
5	Colon and rectum cancer	319	[268, 376]	-11.5	Non-communicable diseases
6	COPD	308	[140, 391]	135.0	Non-communicable diseases
7	Dementia	223	[56, 597]	-7.9	Non-communicable diseases
8	Self-harm	201	[167, 236]	-33.8	Injuries
9	Pancreatic cancer	177	[148, 210]	4.0	Non-communicable diseases
10	Ovarian cancer	175	[142, 225]	-25.6	Non-communicable diseases
Oslo					
	Lung cancer	488	[415, 570]	4.5	Non-communicable diseases
	Ischemic heart disease	417	[342, 487]	-76.5	Non-communicable diseases
	Breast cancer	404	[344, 468]	-51.1	Non-communicable diseases
	COPD	319	[142, 407]	52.9	Non-communicable diseases
	Colon and rectum cancer	307	[262, 360]	-33.9	Non-communicable diseases
	Stroke	304	[251, 356]	-68.7	Non-communicable diseases
	Self-harm	283	[242, 331]	-51.1	Injuries
	Dementia	252	[63, 654]	-6.5	Non-communicable diseases
	Congenital birth defects	183	[142, 285]	-66.6	Communicable, maternal, neonatal, and nutritional diseases
	Ovarian cancer	174	[143, 215]	-32.8	Non-communicable diseases
Rogaland					
1	Ischemic heart disease	445	[368, 519]	-72.7	Non-communicable diseases
2	Lung cancer	434	[370, 503]	45.8	Non-communicable diseases
3	Breast cancer	376	[320, 439]	-45.2	Non-communicable diseases
4	Colon and rectum cancer	342	[291, 399]	-21.1	Non-communicable diseases
5	COPD	280	[133, 355]	112.1	Non-communicable diseases
6	Stroke	278	[232, 326]	-66.2	Non-communicable diseases
7	Dementia	222	[56, 592]	-10.5	Non-communicable diseases
8	Ovarian cancer	208	[174, 246]	-26.1	Non-communicable diseases
9	Self-harm	201	[169, 235]	-45.3	Injuries
10	Congenital birth defects	175	[139, 269]	-61.2	Communicable, maternal, neonatal, and nutritional diseases
Troms og Finnmark					
	Ischemic heart disease	531	[450, 616]	-72.4	Non-communicable diseases
	Lung cancer	452	[393, 524]	53.4	Non-communicable diseases
	Stroke	368	[311, 431]	-64.9	Non-communicable diseases
	Breast cancer	336	[286, 389]	-40.2	Non-communicable diseases
	Congenital birth defects	309	[254, 385]	-64.1	Communicable, maternal, neonatal, and nutritional diseases
	Colon and rectum cancer	304	[260, 352]	-10.6	Non-communicable diseases
	COPD	304	[138, 376]	141.7	Non-communicable diseases
	Neonatal disorders	290	[233, 357]	↑	Communicable, maternal, neonatal, and nutritional diseases
	Dementia	220	[54, 578]	-6.3	Non-communicable diseases
	Self-harm	217	[189, 245]	-32.2	Injuries
Trøndelag					
1	Ischemic heart disease	548	[460, 636]	-70.7	Non-communicable diseases
2	Lung cancer	466	[398, 543]	66.7	Non-communicable diseases
3	Stroke	389	[326, 451]	-62.6	Non-communicable diseases
4	Breast cancer	386	[330, 450]	-40.6	Non-communicable diseases
5	Colon and rectum cancer	353	[303, 411]	-9.5	Non-communicable diseases
6	COPD	326	[156, 415]	116.2	Non-communicable diseases
7	Self-harm	223	[184, 262]	-34.4	Injuries
8	Dementia	221	[53, 579]	-7.9	Non-communicable diseases
9	Pancreatic cancer	188	[158, 220]	14.8	Non-communicable diseases
10	Ovarian cancer	174	[145, 227]	-26.9	Non-communicable diseases
Vestfold og Telemark					
	Ischemic heart disease	509	[435, 588]	-70.8	Non-communicable diseases
	Lung cancer	504	[439, 575]	48.3	Non-communicable diseases
	Breast cancer	378	[331, 435]	-40.4	Non-communicable diseases
	COPD	353	[148, 438]	123.5	Non-communicable diseases
	Stroke	351	[297, 409]	-64.8	Non-communicable diseases
	Colon and rectum cancer	316	[273, 360]	-15.5	Non-communicable diseases
	Self-harm	284	[250, 323]	-31.6	Injuries
	Dementia	221	[55, 569]	-8.8	Non-communicable diseases
	Congenital birth defects	196	[159, 290]	-57.2	Communicable, maternal, neonatal, and nutritional diseases
	Ovarian cancer	192	[167, 224]	-22.7	Non-communicable diseases
Vestland					
1	Ischemic heart disease	468	[391, 543]	-70.3	Non-communicable diseases
2	Lung cancer	397	[344, 457]	68.3	Non-communicable diseases
3	Breast cancer	362	[317, 419]	-41.7	Non-communicable diseases
4	Colon and rectum cancer	355	[305, 409]	-17.5	Non-communicable diseases
5	Stroke	293	[243, 339]	-63.4	Non-communicable diseases
6	COPD	239	[130, 300]	99.0	Non-communicable diseases
7	Self-harm	227	[197, 261]	-27.5	Injuries
8	Dementia	222	[56, 580]	-7.9	Non-communicable diseases
9	Congenital birth defects	203	[168, 288]	-58.1	Communicable, maternal, neonatal, and nutritional diseases
10	Ovarian cancer	181	[153, 212]	-19.8	Non-communicable diseases
Viken					
	Ischemic heart disease	462	[400, 525]	-73.2	Non-communicable diseases
	Lung cancer	460	[415, 508]	41.2	Non-communicable diseases
	Breast cancer	367	[330, 411]	-43.9	Non-communicable diseases
	Stroke	328	[286, 373]	-67.8	Non-communicable diseases
	Colon and rectum cancer	322	[289, 359]	-16.7	Non-communicable diseases
	COPD	305	[138, 362]	117.6	Non-communicable diseases
	Self-harm	229	[207, 255]	-36.8	Injuries
	Dementia	220	[56, 559]	-7.3	Non-communicable diseases
	Ovarian cancer	187	[165, 215]	-27.6	Non-communicable diseases
	Congenital birth defects	175	[142, 271]	-62.3	Communicable, maternal, neonatal, and nutritional diseases

■ Communicable, maternal, neonatal, and nutritional diseases
■ Non-communicable diseases
■ Injuries

Figure S8. Age-standardised YLL rates per 100 000 female inhabitants in each county for the leading 10 level-3 causes in Norway and each Norwegian county, 2019. Bold rates indicate that the uncertainty interval of the county estimate does not overlap the uncertainty interval of the national estimate (upward arrow = county rate is above the national rate, downward arrow = county rate is below the national rate). Lung cancer = Tracheal, bronchus, and lung cancer, Dementia = Alzheimer's disease and other dementias, COPD = Chronic obstructive pulmonary disease, MSK = Musculoskeletal, Endocrine disorders = Endocrine, metabolic, blood, and immune disorders, YLL = Years of Lost Life.

Rank	Norway	YLD rate [95% UI]	Change (%)	Agder	YLD rate [95% UI]	Change (%)
1	Low back pain	953 [663, 1 286]	-5.0	Low back pain	953 [668, 1 290]	-4.9
2	Headache disorders	777 [128, 1 713]	12.5	Headache disorders	777 [129, 1 725]	12.9
3	Anxiety disorders	644 [450, 884]	-5.9	Anxiety disorders	643 [449, 876]	-6.1
4	Depressive disorders	552 [378, 757]	12.0	Depressive disorders	511 [353, 704]	11.8
5	Falls	513 [365, 708]	8.9	Falls	509 [363, 699]	15.0
6	Gynecological diseases	470 [319, 660]	-2.4	Gynecological diseases	475 [320, 660]	-2.3
7	Endocrine disorders	411 [274, 572]	5.5	Diabetes mellitus	442 [304, 608]	38.8
8	Diabetes mellitus	400 [275, 550]	36.0	Endocrine disorders	410 [275, 572]	5.9
9	Oral disorders	323 [188, 518]	-1.8	Oral disorders	323 [189, 518]	-1.7
10	Age-related hearing loss	298 [198, 434]	-5.1	Age-related hearing loss	298 [198, 436]	-5.4

Rank	Innlandet	YLD rate [95% UI]	Change (%)	Møre og Romsdal	YLD rate [95% UI]	Change (%)
1	Low back pain	954 [663, 1 295]	-4.9	Low back pain	953 [664, 1 291]	-5.1
2	Headache disorders	773 [128, 1 709]	11.5	Headache disorders	772 [127, 1 710]	12.9
3	Anxiety disorders	643 [446, 885]	-6.2	Anxiety disorders	643 [454, 887]	-5.9
4	Falls	519 [371, 715]	5.7	Falls	515 [370, 712]	3.6
5	Depressive disorders	511 [352, 704]	12.1	Depressive disorders	510 [349, 702]	11.6
6	Gynecological diseases	473 [320, 659]	-2.3	Gynecological diseases	462 [314, 642]	-2.9
7	Diabetes mellitus	450 [307, 618]	37.7	Diabetes mellitus	421 [290, 576]	38.9
8	Endocrine disorders	406 [271, 566]	5.7	Endocrine disorders	413 [275, 582]	6.9
9	Oral disorders	324 [189, 524]	-1.5	Oral disorders	324 [189, 518]	-2.2
10	Age-related hearing loss	299 [200, 432]	-5.6	Age-related hearing loss	300 [200, 438]	-5.5

Rank	Nordland	YLD rate [95% UI]	Change (%)	Oslo	YLD rate [95% UI]	Change (%)
1	Low back pain	953 [670, 1 289]	-5.1	Low back pain	950 [663, 1 282]	-5.2
2	Headache disorders	774 [128, 1 725]	13.2	Depressive disorders	808 [553, 1 109]	3.0
3	Anxiety disorders	643 [455, 889]	-5.5	Headache disorders	778 [130, 1 732]	12.5
4	Depressive disorders	510 [350, 702]	12.0	Anxiety disorders	645 [451, 887]	-5.9
5	Falls	501 [358, 691]	15.1	Falls	523 [373, 718]	9.7
6	Gynecological diseases	469 [319, 655]	-1.4	Gynecological diseases	470 [320, 663]	-3.7
7	Diabetes mellitus	442 [302, 606]	39.6	Asthma	436 [273, 661]	-35.5
8	Endocrine disorders	411 [272, 570]	6.4	Endocrine disorders	410 [276, 574]	3.9
9	Oral disorders	323 [188, 519]	-2.1	Diabetes mellitus	333 [228, 461]	31.9
10	Age-related hearing loss	299 [197, 436]	-4.8	Oral disorders	321 [186, 514]	-2.0

Rank	Rogaland	YLD rate [95% UI]	Change (%)	Trøms og Finnmark	YLD rate [95% UI]	Change (%)
1	Low back pain	951 [664, 1 284]	-5.2	Low back pain	951 [668, 1 291]	-5.2
2	Headache disorders	775 [127, 1 727]	12.9	Headache disorders	772 [128, 1 723]	13.2
3	Anxiety disorders	645 [451, 883]	-5.7	Anxiety disorders	642 [453, 877]	-5.8
4	Falls	515 [366, 708]	4.8	Depressive disorders	510 [350, 702]	12.0
5	Depressive disorders	511 [350, 700]	11.8	Falls	495 [353, 680]	7.2
6	Gynecological diseases	465 [315, 649]	-2.6	Gynecological diseases	454 [307, 634]	-2.2
7	Endocrine disorders	412 [275, 573]	5.2	Diabetes mellitus	430 [293, 586]	36.9
8	Diabetes mellitus	389 [268, 536]	39.5	Endocrine disorders	394 [263, 550]	4.8
9	Oral disorders	322 [188, 515]	-1.9	Oral disorders	328 [190, 541]	-1.7
10	Age-related hearing loss	298 [200, 434]	-5.5	Age-related hearing loss	304 [204, 442]	-6.8

Rank	Trøndelag	YLD rate [95% UI]	Change (%)	Vestfold og Telemark	YLD rate [95% UI]	Change (%)
1	Low back pain	951 [663, 1 286]	-4.8	Low back pain	955 [664, 1 291]	-4.9
2	Headache disorders	791 [133, 1 734]	12.8	Headache disorders	777 [129, 1 716]	12.9
3	Anxiety disorders	642 [453, 883]	-6.5	Anxiety disorders	645 [451, 886]	-6.2
4	Depressive disorders	511 [353, 703]	11.9	Falls	533 [380, 734]	3.9
5	Falls	480 [332, 675]	15.2	Depressive disorders	511 [351, 699]	12.0
6	Gynecological diseases	470 [316, 657]	-2.3	Gynecological diseases	476 [321, 666]	-2.1
7	Endocrine disorders	416 [275, 579]	6.4	Diabetes mellitus	416 [284, 570]	34.7
8	Diabetes mellitus	356 [244, 489]	25.5	Endocrine disorders	409 [274, 571]	5.6
9	Oral disorders	324 [190, 519]	-1.9	Oral disorders	324 [189, 516]	-1.6
10	Age-related hearing loss	297 [198, 436]	-4.9	Age-related hearing loss	298 [199, 434]	-5.1

Rank	Vestland	YLD rate [95% UI]	Change (%)	Viken	YLD rate [95% UI]	Change (%)
1	Low back pain	953 [671, 1 293]	-5.1	Low back pain	954 [661, 1 291]	-4.6
2	Headache disorders	774 [128, 1 721]	12.9	Headache disorders	774 [129, 1 711]	11.5
3	Anxiety disorders	645 [455, 877]	-5.6	Anxiety disorders	645 [452, 882]	-5.9
4	Depressive disorders	514 [355, 702]	11.8	Falls	526 [376, 725]	6.5
5	Falls	496 [353, 682]	15.9	Depressive disorders	512 [350, 702]	12.0
6	Gynecological diseases	468 [317, 660]	-2.1	Gynecological diseases	475 [322, 660]	-2.3
7	Endocrine disorders	418 [279, 584]	6.2	Endocrine disorders	413 [277, 575]	4.8
8	Diabetes mellitus	397 [272, 548]	41.4	Diabetes mellitus	399 [275, 552]	35.7
9	Oral disorders	324 [189, 513]	-1.8	Oral disorders	323 [188, 517]	-1.4
10	Age-related hearing loss	299 [199, 438]	-5.5	Age-related hearing loss	297 [198, 433]	-4.8

■ Non-communicable diseases
■ Injuries

Figure S9. Age-standardised YLD rates per 100 000 inhabitants in each county for the leading 10 level-3 causes in Norway and each Norwegian county, both sexes combined, 2019. Bold rates indicate that the uncertainty interval of the county estimate does not overlap the uncertainty interval of the national estimate (upward arrow = county rate is above the national rate, downward arrow = county rate is below the national rate). Lung cancer = Tracheal, bronchus, and lung cancer, Dementia = Alzheimer's disease and other dementias, COPD = Chronic obstructive pulmonary disease, MSK = Musculoskeletal, Endocrine disorders = Endocrine, metabolic, blood, and immune disorders, YLD = Years Lived with Disease.

Rank	Norway	YLD rate	[95% UI]	Change (%)	Agder	YLD rate	[95% UI]	Change (%)
1	Low back pain	841	[583, 1 141]	-5.2	Low back pain	840	[587, 1 143]	-5.2
2	Headache disorders	523	[88, 1 164]	12.9	Headache disorders	524	[86, 1 172]	13.1
3	Falls	507	[360, 703]	0.7	Falls	501	[354, 698]	5.5
4	Anxiety disorders	496	[351, 688]	-0.9	Anxiety disorders	496	[346, 678]	-0.8
5	Depressive disorders	439	[300, 599]	9.7	Diabetes mellitus	475	[323, 649]	33.5
6	Diabetes mellitus	428	[292, 586]	32.0	Depressive disorders	421	[289, 576]	10.1
7	Age-related hearing loss	337	[223, 498]	-5.3	Age-related hearing loss	337	[222, 501]	-5.5
8	Endocrine disorders	333	[222, 464]	9.0	Endocrine disorders	331	[221, 461]	9.6
9	Oral disorders	295	[167, 486]	-0.2	Oral disorders	294	[168, 485]	0.0
10	Drug use disorders	278	[193, 369]	35.3	Drug use disorders	248	[172, 334]	28.5

Rank	Innlandet	YLD rate	[95% UI]	Change (%)	Møre og Romsdal	YLD rate	[95% UI]	Change (%)
1	Low back pain	842	[582, 1 141]	-5.3	Low back pain	843	[579, 1 146]	-5.2
2	Falls	513	[363, 713]	-2.5	Headache disorders	524	[87, 1 167]	13.2
3	Headache disorders	508	[87, 1 127]	13.4	Falls	523	[372, 724]	-4.3
4	Anxiety disorders	495	[344, 690]	-1.3	Anxiety disorders	497	[347, 687]	-0.9
5	Diabetes mellitus	479	[326, 650]	36.8	Diabetes mellitus	453	[309, 618]	35.5
6	Depressive disorders	421	[287, 577]	10.1	Depressive disorders	421	[288, 582]	10.2
7	Age-related hearing loss	338	[222, 496]	-5.5	Age-related hearing loss	338	[221, 494]	-5.9
8	Endocrine disorders	329	[219, 458]	9.1	Endocrine disorders	336	[225, 472]	10.4
9	Oral disorders	295	[169, 489]	-0.2	Oral disorders	295	[168, 485]	-0.5
10	Drug use disorders	253	[174, 338]	41.2	Alcohol use disorders	235	[157, 331]	-40.1

Rank	Nordland	YLD rate	[95% UI]	Change (%)	Oslo	YLD rate	[95% UI]	Change (%)
1	Low back pain	842	[587, 1 154]	-5.4	Low back pain	837	[587, 1 126]	-5.0
2	Headache disorders	524	[85, 1 154]	13.0	Depressive disorders	554	[382, 768]	1.6
3	Falls	498	[356, 690]	9.2	Headache disorders	522	[87, 1 164]	13.3
4	Anxiety disorders	497	[352, 690]	-0.9	Falls	512	[364, 706]	-0.3
5	Diabetes mellitus	476	[322, 654]	37.6	Anxiety disorders	496	[342, 694]	-0.5
6	Depressive disorders	421	[288, 579]	9.9	Asthma	423	[262, 637]	-40.0
7	Age-related hearing loss	337	[220, 494]	-5.1	Diabetes mellitus	362	[246, 502]	23.8
8	Endocrine disorders	334	[223, 465]	9.5	Endocrine disorders	332	[220, 468]	8.0
9	Oral disorders	294	[168, 488]	-0.4	Age-related hearing loss	331	[217, 492]	-4.6
10	Asthma	272	[172, 411]	-48.5	Drug use disorders	324	[224, 437]	2.3

Rank	Rogaland	YLD rate	[95% UI]	Change (%)	Troms og Finnmark	YLD rate	[95% UI]	Change (%)
1	Low back pain	840	[584, 1 140]	-5.4	Low back pain	841	[587, 1 138]	-5.6
2	Headache disorders	524	[87, 1 156]	13.2	Headache disorders	524	[87, 1 156]	13.2
3	Falls	510	[362, 705]	-3.0	Anxiety disorders	497	[351, 680]	-1.0
4	Anxiety disorders	497	[346, 687]	-0.8	Falls	493	[350, 685]	-0.4
5	Depressive disorders	421	[289, 580]	10.0	Diabetes mellitus	457	[310, 624]	34.4
6	Diabetes mellitus	416	[287, 575]	36.6	Depressive disorders	421	[288, 575]	10.1
7	Age-related hearing loss	337	[226, 494]	-5.9	Age-related hearing loss	342	[228, 501]	-6.8
8	Endocrine disorders	334	[222, 468]	9.0	Endocrine disorders	319	[212, 442]	8.2
9	Oral disorders	294	[167, 485]	-0.1	Oral disorders	304	[170, 515]	-0.3
10	Drug use disorders	277	[189, 374]	40.9	Alcohol use disorders	246	[166, 347]	-40.0

Rank	Trøndelag	YLD rate	[95% UI]	Change (%)	Vestfold og Telemark	YLD rate	[95% UI]	Change (%)
1	Low back pain	840	[590, 1 137]	-5.1	Low back pain	841	[583, 1 145]	-5.3
2	Headache disorders	542	[94, 1 197]	13.4	Falls	534	[381, 741]	-3.0
3	Anxiety disorders	496	[349, 684]	-1.1	Headache disorders	523	[88, 1 157]	13.1
4	Falls	475	[328, 675]	7.7	Anxiety disorders	497	[347, 693]	-1.1
5	Depressive disorders	421	[290, 582]	10.1	Diabetes mellitus	449	[307, 611]	32.0
6	Diabetes mellitus	386	[261, 537]	24.0	Depressive disorders	420	[288, 576]	9.9
7	Age-related hearing loss	336	[221, 499]	-4.9	Age-related hearing loss	337	[222, 498]	-5.1
8	Endocrine disorders	335	[223, 468]	9.8	Endocrine disorders	330	[222, 458]	8.7
9	Oral disorders	295	[168, 487]	-0.2	Oral disorders	294	[167, 482]	-0.2
10	Drug use disorders	243	[167, 324]	38.2	Drug use disorders	285	[196, 388]	47.0

Rank	Vestland	YLD rate	[95% UI]	Change (%)	Viken	YLD rate	[95% UI]	Change (%)
1	Low back pain	841	[588, 1 148]	-5.3	Low back pain	841	[584, 1 141]	-4.8
2	Headache disorders	524	[88, 1 153]	13.0	Headache disorders	520	[88, 1 135]	11.8
3	Anxiety disorders	497	[349, 681]	-0.8	Falls	517	[366, 717]	-2.5
4	Falls	488	[347, 679]	8.4	Anxiety disorders	496	[349, 685]	-0.9
5	Depressive disorders	423	[288, 584]	9.7	Diabetes mellitus	426	[292, 579]	31.4
6	Diabetes mellitus	421	[284, 582]	37.2	Depressive disorders	421	[287, 577]	10.2
7	Endocrine disorders	339	[225, 474]	9.5	Age-related hearing loss	336	[223, 492]	-4.7
8	Age-related hearing loss	337	[223, 500]	-5.7	Endocrine disorders	334	[222, 468]	8.2
9	Drug use disorders	297	[206, 401]	50.9	Drug use disorders	299	[208, 405]	38.5
10	Oral disorders	295	[169, 485]	-0.2	Oral disorders	294	[168, 483]	0.0

■ Non-communicable diseases
■ Injuries

Figure S10. Age-standardised YLD rates per 100 000 male inhabitants in each county for the leading 10 level-3 causes in Norway and each Norwegian county, 2019. Bold letters indicate that the uncertainty interval of the county estimate does not overlap the uncertainty interval of the national estimate (upward arrow = county rate is above the national rate, downward arrow = county rate is below the national rate). Lung cancer = Tracheal, bronchus, and lung cancer, Dementia = Alzheimer's disease and other dementias, COPD = Chronic obstructive pulmonary disease, MSK = Musculoskeletal, Endocrine disorders = Endocrine, metabolic, blood, and immune disorders, YLD = Years Lived with Disease.

Rank	County	YLD rate	[95% UI]	Change (%)	Category
Norway					
1	Low back pain	1 065	[744, 1 434]	-4.0	Non-communicable diseases
2	Headache disorders	1 043	[168, 2 343]	12.9	Non-communicable diseases
3	Gynecological diseases	964	[653, 1 351]	-1.2	Non-communicable diseases
4	Anxiety disorders	798	[559, 1 094]	-8.6	Non-communicable diseases
5	Depressive disorders	671	[459, 918]	14.3	Non-communicable diseases
6	Falls	507	[361, 694]	19.6	Injuries
7	Endocrine disorders	493	[329, 688]	3.7	Non-communicable diseases
8	Other MSK disorders	391	[264, 548]	-9.7	Non-communicable diseases
9	Diabetes mellitus	371	[257, 511]	39.7	Non-communicable diseases
10	Osteoarthritis	364	[185, 734]	4.8	Non-communicable diseases
Agder					
1	Low back pain	1 067	[742, 1 440]	-3.9	Non-communicable diseases
2	Headache disorders	1 043	[172, 2 344]	13.4	Non-communicable diseases
3	Gynecological diseases	969	[652, 1 350]	-1.3	Non-communicable diseases
4	Anxiety disorders	796	[554, 1 090]	-9.0	Non-communicable diseases
5	Depressive disorders	606	[418, 838]	13.7	Non-communicable diseases
6	Falls	505	[360, 692]	26.9	Injuries
7	Endocrine disorders	490	[327, 686]	4.0	Non-communicable diseases
8	Diabetes mellitus	408	[282, 570]	44.4	Non-communicable diseases
9	Other MSK disorders	388	[262, 550]	-9.5	Non-communicable diseases
10	Osteoarthritis	359	[182, 724]	4.7	Non-communicable diseases
Innlandet					
1	Low back pain	1 066	[744, 1 432]	-4.1	Non-communicable diseases
2	Headache disorders	1 051	[171, 2 380]	11.1	Non-communicable diseases
3	Gynecological diseases	966	[653, 1 347]	-1.3	Non-communicable diseases
4	Anxiety disorders	797	[552, 1 091]	-8.9	Non-communicable diseases
5	Depressive disorders	606	[416, 840]	13.9	Non-communicable diseases
6	Falls	513	[366, 701]	15.3	Injuries
7	Endocrine disorders	484	[322, 674]	3.5	Non-communicable diseases
8	Diabetes mellitus	420	[293, 574]	38.6	Non-communicable diseases
9	Other MSK disorders	380	[258, 535]	-9.7	Non-communicable diseases
10	Osteoarthritis	359	[182, 725]	4.8	Non-communicable diseases
Møre og Romsdal					
1	Low back pain	1 067	[753, 1 445]	-4.2	Non-communicable diseases
2	Headache disorders	1 043	[168, 2 345]	13.4	Non-communicable diseases
3	Gynecological diseases	967	[657, 1 343]	-1.2	Non-communicable diseases
4	Anxiety disorders	800	[558, 1 097]	-8.5	Non-communicable diseases
5	Depressive disorders	606	[417, 831]	13.4	Non-communicable diseases
6	Falls	497	[358, 680]	14.6	Injuries
7	Endocrine disorders	496	[327, 704]	5.1	Non-communicable diseases
8	Diabetes mellitus	389	[267, 540]	41.9	Non-communicable diseases
9	Other MSK disorders	389	[256, 547]	-9.6	Non-communicable diseases
10	Osteoarthritis	361	[183, 730]	5.1	Non-communicable diseases
Nordland					
1	Low back pain	1 067	[747, 1 440]	-4.2	Non-communicable diseases
2	Headache disorders	1 043	[169, 2 363]	13.5	Non-communicable diseases
3	Gynecological diseases	971	[661, 1 356]	-1.0	Non-communicable diseases
4	Anxiety disorders	799	[559, 1 103]	-8.2	Non-communicable diseases
5	Depressive disorders	607	[417, 841]	13.9	Non-communicable diseases
6	Falls	493	[352, 676]	23.1	Injuries
7	Endocrine disorders	490	[325, 688]	4.3	Non-communicable diseases
8	Diabetes mellitus	407	[279, 560]	41.3	Non-communicable diseases
9	Other MSK disorders	390	[259, 558]	-10.1	Non-communicable diseases
10	Osteoarthritis	360	[183, 730]	4.8	Non-communicable diseases
Oslo					
1	Depressive disorders	1 062	[724, 1 462]	5.4	Non-communicable diseases
2	Low back pain	1 059	[741, 1 431]	-3.9	Non-communicable diseases
3	Headache disorders	1 037	[170, 2 344]	13.5	Non-communicable diseases
4	Gynecological diseases	951	[649, 1 344]	-1.2	Non-communicable diseases
5	Anxiety disorders	795	[554, 1 090]	-8.2	Non-communicable diseases
6	Falls	520	[372, 710]	23.0	Injuries
7	Endocrine disorders	492	[330, 686]	3.0	Non-communicable diseases
8	Asthma	447	[278, 681]	-31.7	Non-communicable diseases
9	Other MSK disorders	399	[265, 565]	-8.7	Non-communicable diseases
10	Osteoarthritis	390	[197, 792]	5.0	Non-communicable diseases
Troms og Finnmark					
1	Low back pain	1 067	[752, 1 448]	-4.3	Non-communicable diseases
2	Headache disorders	1 043	[170, 2 332]	13.5	Non-communicable diseases
3	Gynecological diseases	948	[642, 1 324]	-1.9	Non-communicable diseases
4	Anxiety disorders	799	[559, 1 096]	-8.6	Non-communicable diseases
5	Depressive disorders	607	[414, 840]	13.9	Non-communicable diseases
6	Falls	486	[346, 664]	17.6	Injuries
7	Endocrine disorders	474	[317, 667]	2.4	Non-communicable diseases
8	Diabetes mellitus	402	[274, 554]	39.6	Non-communicable diseases
9	Other MSK disorders	381	[255, 527]	-6.8	Non-communicable diseases
10	Osteoarthritis	358	[182, 719]	5.6	Non-communicable diseases
Trøndelag					
1	Low back pain	1 065	[749, 1 441]	-3.8	Non-communicable diseases
2	Headache disorders	1 057	[176, 2 353]	13.3	Non-communicable diseases
3	Gynecological diseases	972	[654, 1 360]	-0.7	Non-communicable diseases
4	Anxiety disorders	797	[556, 1 093]	-9.3	Non-communicable diseases
5	Depressive disorders	607	[416, 835]	14.0	Non-communicable diseases
6	Endocrine disorders	499	[332, 699]	4.6	Non-communicable diseases
7	Falls	475	[327, 666]	24.8	Injuries
8	Other MSK disorders	409	[277, 570]	-10.4	Non-communicable diseases
9	Osteoarthritis	362	[185, 735]	5.1	Non-communicable diseases
10	Oral disorders	352	[209, 550]	-2.3	Non-communicable diseases
Vestfold og Telemark					
1	Low back pain	1 067	[743, 1 439]	-4.0	Non-communicable diseases
2	Headache disorders	1 042	[168, 2 341]	13.4	Non-communicable diseases
3	Gynecological diseases	965	[651, 1 353]	-1.2	Non-communicable diseases
4	Anxiety disorders	798	[555, 1 100]	-8.8	Non-communicable diseases
5	Depressive disorders	606	[416, 833]	14.0	Non-communicable diseases
6	Falls	519	[373, 707]	13.3	Injuries
7	Endocrine disorders	488	[327, 684]	3.7	Non-communicable diseases
8	Other MSK disorders	387	[257, 541]	-9.9	Non-communicable diseases
9	Diabetes mellitus	384	[262, 528]	37.3	Non-communicable diseases
10	Osteoarthritis	360	[183, 725]	4.9	Non-communicable diseases
Vestland					
1	Low back pain	1 067	[751, 1 447]	-4.0	Non-communicable diseases
2	Headache disorders	1 042	[171, 2 337]	13.3	Non-communicable diseases
3	Gynecological diseases	970	[659, 1 369]	-0.9	Non-communicable diseases
4	Anxiety disorders	800	[561, 1 084]	-8.3	Non-communicable diseases
5	Depressive disorders	611	[418, 838]	13.9	Non-communicable diseases
6	Endocrine disorders	502	[335, 705]	4.6	Non-communicable diseases
7	Falls	492	[349, 674]	25.1	Injuries
8	Other MSK disorders	394	[266, 555]	-9.7	Non-communicable diseases
9	Diabetes mellitus	371	[253, 514]	45.2	Non-communicable diseases
10	Osteoarthritis	361	[183, 728]	4.9	Non-communicable diseases
Viken					
1	Low back pain	1 066	[747, 1 437]	-3.8	Non-communicable diseases
2	Headache disorders	1 039	[168, 2 350]	12.0	Non-communicable diseases
3	Gynecological diseases	965	[654, 1 343]	-1.1	Non-communicable diseases
4	Anxiety disorders	798	[556, 1 092]	-8.4	Non-communicable diseases
5	Depressive disorders	607	[417, 833]	13.9	Non-communicable diseases
6	Falls	522	[375, 715]	17.9	Injuries
7	Endocrine disorders	494	[332, 691]	3.1	Non-communicable diseases
8	Other MSK disorders	388	[261, 543]	-10.8	Non-communicable diseases
9	Diabetes mellitus	373	[260, 516]	40.1	Non-communicable diseases
10	Osteoarthritis	361	[183, 726]	4.9	Non-communicable diseases

■ Non-communicable diseases
■ Injuries

Figure S11. Age-standardised YLD rates per 100 000 female inhabitants in each county for the leading 10 level-3 causes in Norway and each Norwegian county, 2019. Bold letters indicate that the uncertainty interval of the county estimate does not overlap the uncertainty interval of the national estimate (upward arrow = county rate is above the national rate, downward arrow = county rate is below the national rate). Lung cancer = Tracheal, bronchus, and lung cancer, Dementia = Alzheimer's disease and other dementias, COPD = Chronic obstructive pulmonary disease, MSK = Musculoskeletal, Endocrine disorders = Endocrine, metabolic, blood, and immune disorders, YLD = Years Lived with Disease.

Rank	Norway	PAF [95% UI]	Change (%)	Agder	PAF [95% UI]	Change (%)
1	Tobacco	9.9 [8.9, 11.0]	-26.4	Tobacco	10.4 [9.2, 11.6]	-25.8
2	High blood pressure	7.5 [6.2, 8.7]	-15.8	High blood pressure	7.3 [6.1, 8.6]	-15.2
3	Dietary risks	6.8 [5.8, 8.1]	-4.3	High fasting plasma glucose	7.3 [5.9, 9.2]	38.1
4	High fasting plasma glucose	6.8 [5.5, 8.7]	36.7	Dietary risks	6.6 [5.7, 7.9]	-3.9
5	Alcohol use	5.5 [4.7, 6.5]	30.1	Alcohol use	5.6 [4.4, 6.8]	35.6
6	High body-mass index	5.3 [3.1, 7.8]	33.8	High body-mass index	5.3 [3.1, 7.7]	36.0
7	High LDL	3.9 [3.1, 4.9]	-2.9	Occupational risks	4.1 [3.6, 4.7]	-10.9
8	Occupational risks	3.8 [3.4, 4.2]	-11.7	High LDL	3.7 [2.9, 4.6]	-3.6
9	Drug use	3.4 [2.9, 3.9]	37.6	Drug use	3.0 [2.6, 3.5]	29.7
10	Malnutrition	1.9 [1.6, 2.2]	-4.3	Malnutrition	1.8 [1.5, 2.2]	-4.0

Rank	Innlandet	PAF [95% UI]	Change (%)	Møre og Romsdal	PAF [95% UI]	Change (%)
1	Tobacco	9.7 [8.6, 10.9]	-24.4	Tobacco	9.2 [8.1, 10.4]	-24.6
2	High blood pressure	8.0 [6.6, 9.5]	-10.6	High blood pressure	7.2 [6.0, 8.6]	-14.7
3	High fasting plasma glucose	7.8 [6.3, 9.8]	42.3	High fasting plasma glucose	7.1 [5.6, 9.0]	40.7
4	Dietary risks	7.4 [6.3, 8.8]	-3.3	Dietary risks	6.7 [5.7, 8.0]	-3.8
5	High body-mass index	5.6 [3.2, 8.2]	34.5	High body-mass index	5.4 [3.1, 7.9]	39.9
6	Alcohol use	5.4 [4.1, 6.9]	29.0	Alcohol use	5.2 [3.7, 6.7]	31.9
7	High LDL	4.3 [3.4, 5.3]	-0.8	High LDL	3.8 [3.0, 4.8]	-3.2
8	Occupational risks	3.6 [3.2, 4.1]	-10.3	Occupational risks	3.5 [3.0, 4.0]	-13.3
9	Drug use	2.9 [2.5, 3.3]	43.4	Drug use	2.6 [2.2, 3.0]	39.3
10	Malnutrition	1.8 [1.5, 2.2]	-4.6	Malnutrition	2.1 [1.7, 2.6]	-4.6

Rank	Nordland	PAF [95% UI]	Change (%)	Oslo	PAF [95% UI]	Change (%)
1	Tobacco	10.0 [8.8, 11.2]	-26.2	Tobacco	9.9 [8.7, 11.2]	-26.1
2	High blood pressure	8.3 [6.8, 10.0]	-14.8	Alcohol use	6.5 [5.1, 7.9]	21.6
3	High fasting plasma glucose	7.7 [6.1, 9.8]	42.7	High blood pressure	6.2 [4.9, 7.5]	-13.3
4	Dietary risks	7.6 [6.4, 9.0]	-3.7	Dietary risks	6.1 [5.0, 7.3]	-4.1
5	High body-mass index	5.7 [3.3, 8.3]	33.8	High fasting plasma glucose	5.5 [4.3, 7.0]	26.4
6	Alcohol use	5.5 [3.9, 7.2]	31.1	High body-mass index	5.2 [3.0, 7.6]	28.9
7	High LDL	4.5 [3.5, 5.5]	-3.9	Drug use	4.4 [3.7, 5.2]	5.0
8	Occupational risks	3.5 [3.1, 4.0]	-12.2	Occupational risks	3.7 [3.2, 4.2]	-13.6
9	Drug use	2.8 [2.4, 3.2]	40.7	High LDL	3.5 [2.7, 4.4]	-2.1
10	Kidney dysfunction	2.0 [1.7, 2.4]	4.4	Malnutrition	1.9 [1.5, 2.3]	-4.2

Rank	Rogaland	PAF [95% UI]	Change (%)	Troms og Finnmark	PAF [95% UI]	Change (%)
1	Tobacco	10.2 [9.0, 11.4]	-24.7	Tobacco	10.4 [9.3, 11.6]	-24.6
2	High blood pressure	7.2 [5.9, 8.6]	-14.6	High blood pressure	8.1 [6.8, 9.6]	-18.5
3	Dietary risks	6.6 [5.5, 7.8]	-4.6	Dietary risks	7.3 [6.2, 8.8]	-4.5
4	High fasting plasma glucose	6.5 [5.1, 8.5]	41.6	High fasting plasma glucose	7.3 [5.8, 9.2]	39.8
5	Alcohol use	5.4 [4.0, 6.8]	29.7	High body-mass index	5.3 [3.0, 7.8]	47.7
6	High body-mass index	5.0 [2.8, 7.3]	35.1	Alcohol use	5.1 [3.9, 6.4]	36.3
7	Occupational risks	4.0 [3.5, 4.5]	-13.2	High LDL	4.5 [3.6, 5.5]	-3.0
8	High LDL	3.7 [2.9, 4.6]	-3.2	Occupational risks	3.5 [3.1, 4.0]	-12.6
9	Drug use	3.3 [2.8, 3.9]	42.5	Malnutrition	2.5 [2.1, 3.0]	-5.6
10	Malnutrition	2.0 [1.6, 2.4]	-3.9	Drug use	2.3 [2.0, 2.6]	34.5

Rank	Trøndelag	PAF [95% UI]	Change (%)	Vestfold og Telemark	PAF [95% UI]	Change (%)
1	Tobacco	10.6 [9.3, 11.9]	-26.2	Tobacco	10.2 [9.1, 11.4]	-25.4
2	High blood pressure	9.4 [7.9, 11.1]	-19.6	High blood pressure	7.5 [6.3, 8.9]	-15.0
3	Dietary risks	7.3 [6.1, 8.9]	-5.8	High fasting plasma glucose	7.0 [5.6, 8.8]	36.7
4	High fasting plasma glucose	6.6 [5.2, 8.6]	27.5	Dietary risks	6.8 [5.8, 8.2]	-4.0
5	Alcohol use	5.5 [4.0, 7.1]	36.5	Alcohol use	5.6 [4.3, 7.0]	27.9
6	High body-mass index	5.5 [3.2, 8.0]	35.5	High body-mass index	5.3 [3.1, 7.7]	32.5
7	High LDL	4.6 [3.6, 5.7]	-0.6	Occupational risks	4.2 [3.7, 4.7]	-10.2
8	Occupational risks	3.5 [3.0, 4.0]	-12.8	High LDL	3.9 [3.0, 4.8]	-4.0
9	Drug use	2.9 [2.5, 3.4]	41.3	Drug use	3.4 [3.0, 3.9]	49.8
10	Kidney dysfunction	1.9 [1.6, 2.2]	-2.0	Kidney dysfunction	1.8 [1.5, 2.1]	4.4

Rank	Vestland	PAF [95% UI]	Change (%)	Viken	PAF [95% UI]	Change (%)
1	Tobacco	9.8 [8.7, 10.9]	-29.8	Tobacco	9.5 [8.4, 10.5]	-28.0
2	High blood pressure	7.4 [6.0, 8.8]	-12.2	High blood pressure	6.9 [5.7, 8.2]	-16.4
3	Dietary risks	7.0 [5.9, 8.3]	-3.6	High fasting plasma glucose	6.7 [5.4, 8.6]	36.1
4	High fasting plasma glucose	6.7 [5.3, 8.6]	42.1	Dietary risks	6.6 [5.5, 7.8]	-3.9
5	High body-mass index	5.2 [3.0, 7.6]	37.0	Alcohol use	5.5 [4.5, 6.6]	21.5
6	Alcohol use	5.1 [3.9, 6.4]	37.1	High body-mass index	5.3 [3.0, 7.7]	27.4
7	High LDL	4.1 [3.2, 5.1]	-0.9	Occupational risks	3.9 [3.4, 4.3]	-11.0
8	Occupational risks	3.8 [3.4, 4.3]	-11.2	High LDL	3.6 [2.8, 4.6]	-3.7
9	Drug use	3.8 [3.2, 4.4]	52.8	Drug use	3.6 [3.1, 4.2]	41.1
10	Malnutrition	1.9 [1.6, 2.3]	-5.0	Malnutrition	1.9 [1.6, 2.3]	-4.1

■ Behavioural risks
■ Environmental & occupational risks
■ Metabolic risks

Figure S12. Leading 10 level-2 risk factors for Norway and each Norwegian county by population attributable fraction (PAF) for all-cause DALY rate per 100 000 male inhabitants. Age-standardised. Change = percentage change in summary exposure variable (SEV) between 1990 and 2019. DALY = Disability-Adjusted Life Year.

Rank	Norway	PAF	[95% UI]	Change (%)	Agder	PAF	[95% UI]	Change (%)
1	Tobacco	6.6	5.7, 7.6	-28.0	Tobacco	7.0	5.9, 8.2	-27.4
2	High fasting plasma glucose	5.0	3.9, 6.5	39.6	High fasting plasma glucose	5.5	4.2, 7.1	45.7
3	High body-mass index	4.8	3.2, 6.5	38.4	High body-mass index	4.8	3.2, 6.6	40.6
4	High blood pressure	4.3	3.4, 5.3	-16.8	High blood pressure	4.4	3.3, 5.4	-19.2
5	Dietary risks	4.0	3.3, 4.7	-7.1	Dietary risks	4.1	3.4, 4.8	-7.3
6	Occupational risks	2.2	1.9, 2.5	-25.6	Occupational risks	2.3	1.9, 2.7	-43.7
7	High LDL	1.9	1.4, 2.5	-2.8	High LDL	1.9	1.3, 2.5	-3.2
8	Malnutrition	1.8	1.5, 2.0	-12.1	Malnutrition	1.7	1.4, 2.0	-12.2
9	Alcohol use	1.7	1.3, 2.2	22.7	Alcohol use	1.6	1.0, 2.4	24.3
10	Drug use	1.5	1.2, 1.8	37.9	Drug use	1.4	1.1, 1.6	33.6

Rank	Innlandet	PAF	[95% UI]	Change (%)	Møre og Romsdal	PAF	[95% UI]	Change (%)
1	Tobacco	6.5	5.5, 7.6	-25.1	Tobacco	6.0	4.9, 7.1	-26.4
2	High fasting plasma glucose	5.9	4.6, 7.6	40.2	High fasting plasma glucose	5.3	4.1, 7.0	42.1
3	High body-mass index	5.1	3.3, 6.9	39.0	High body-mass index	4.9	3.2, 6.7	44.8
4	High blood pressure	4.8	3.7, 6.1	-12.9	High blood pressure	4.4	3.3, 5.6	-19.4
5	Dietary risks	4.3	3.6, 5.2	-7.0	Dietary risks	4.1	3.4, 5.0	-7.5
6	Occupational risks	2.2	1.9, 2.6	-36.5	Occupational risks	2.0	1.7, 2.6	-3.8
7	High LDL	2.1	1.5, 2.9	-2.4	High LDL	2.0	1.4, 2.7	-3.2
8	Malnutrition	1.7	1.4, 2.0	-12.4	Malnutrition	1.9	1.5, 2.2	-11.5
9	Alcohol use	1.5	0.9, 2.2	20.4	Alcohol use	1.4	0.8, 2.3	22.9
10	Drug use	1.4	1.1, 1.6	36.2	Low bone mineral density	1.3	1.0, 1.5	-14.0

Rank	Nordland	PAF	[95% UI]	Change (%)	Oslo	PAF	[95% UI]	Change (%)
1	Tobacco	6.7	5.5, 8.0	-27.7	Tobacco	6.6	5.5, 7.7	-28.4
2	High fasting plasma glucose	5.6	4.3, 7.3	42.6	High body-mass index	4.6	3.0, 6.4	33.4
3	High body-mass index	5.1	3.3, 7.0	38.0	High fasting plasma glucose	3.8	2.9, 5.1	34.0
4	High blood pressure	4.5	3.5, 5.8	-20.6	High blood pressure	3.8	2.9, 4.8	-8.6
5	Dietary risks	4.2	3.5, 5.0	-7.0	Dietary risks	3.3	2.8, 4.1	-6.5
6	Occupational risks	2.1	1.7, 2.7	-3.1	Alcohol use	2.3	1.5, 3.2	26.8
7	High LDL	2.0	1.4, 2.7	-3.8	Occupational risks	2.0	1.7, 2.5	-4.6
8	Malnutrition	1.6	1.3, 1.9	-10.3	Drug use	2.0	1.6, 2.3	25.1
9	Alcohol use	1.5	0.9, 2.4	19.1	Malnutrition	1.7	1.4, 2.1	-12.6
10	Low bone mineral density	1.3	1.0, 1.5	-13.9	High LDL	1.6	1.1, 2.2	-2.2

Rank	Rogaland	PAF	[95% UI]	Change (%)	Troms og Finnmark	PAF	[95% UI]	Change (%)
1	Tobacco	6.4	5.2, 7.6	-26.0	Tobacco	6.6	5.5, 7.6	-25.8
2	High fasting plasma glucose	4.8	3.7, 6.3	41.3	High fasting plasma glucose	5.4	4.2, 7.0	41.3
3	High body-mass index	4.6	2.9, 6.3	41.0	High body-mass index	4.7	3.1, 6.6	50.6
4	High blood pressure	4.1	3.1, 5.2	-20.4	High blood pressure	4.5	3.5, 5.6	-21.9
5	Dietary risks	3.8	3.1, 4.6	-7.3	Dietary risks	4.1	3.4, 4.9	-7.3
6	Occupational risks	2.0	1.7, 2.6	-4.6	Occupational risks	2.2	1.9, 2.6	-44.2
7	Malnutrition	1.8	1.5, 2.2	-11.8	Malnutrition	2.2	1.8, 2.6	-17.6
8	High LDL	1.8	1.3, 2.4	-3.3	High LDL	2.0	1.5, 2.7	-3.0
9	Alcohol use	1.6	1.0, 2.4	20.8	Alcohol use	1.4	0.9, 2.0	28.5
10	Drug use	1.5	1.2, 1.8	39.7	Drug use	1.3	1.0, 1.5	30.9

Rank	Trøndelag	PAF	[95% UI]	Change (%)	Vestfold og Telemark	PAF	[95% UI]	Change (%)
1	Tobacco	8.3	7.0, 9.6	-27.6	Tobacco	6.7	5.6, 7.8	-26.9
2	High body-mass index	4.9	3.2, 6.7	40.2	High fasting plasma glucose	5.2	4.1, 6.8	38.0
3	High fasting plasma glucose	4.7	3.7, 6.2	26.0	High body-mass index	4.8	3.1, 6.6	36.7
4	High blood pressure	4.5	3.3, 5.8	-22.9	High blood pressure	4.4	3.4, 5.5	-20.1
5	Dietary risks	4.2	3.5, 5.1	-7.1	Dietary risks	4.0	3.4, 4.8	-7.2
6	High LDL	2.1	1.5, 2.8	0.6	Occupational risks	2.3	1.9, 2.7	-36.1
7	Occupational risks	2.0	1.7, 2.6	-3.1	High LDL	1.9	1.4, 2.6	-3.6
8	Alcohol use	1.8	1.1, 2.7	22.8	Malnutrition	1.7	1.4, 2.0	-11.7
9	Malnutrition	1.5	1.3, 1.9	-11.1	Alcohol use	1.7	1.1, 2.4	17.9
10	Kidney dysfunction	1.2	1.0, 1.5	2.7	Drug use	1.5	1.3, 1.9	44.7

Rank	Vestland	PAF	[95% UI]	Change (%)	Viken	PAF	[95% UI]	Change (%)
1	Tobacco	6.0	5.0, 7.0	-31.5	Tobacco	6.5	5.5, 7.5	-29.3
2	High fasting plasma glucose	5.0	3.8, 6.5	45.0	High fasting plasma glucose	5.0	3.9, 6.5	39.6
3	High body-mass index	4.7	3.0, 6.5	42.6	High body-mass index	4.8	3.1, 6.6	31.4
4	High blood pressure	4.3	3.3, 5.4	-14.1	High blood pressure	4.3	3.4, 5.3	-15.6
5	Dietary risks	4.0	3.3, 4.8	-7.1	Dietary risks	3.9	3.3, 4.7	-6.8
6	Occupational risks	2.1	1.8, 2.5	-30.6	Occupational risks	2.2	1.9, 2.6	-29.4
7	High LDL	1.9	1.3, 2.5	-2.1	High LDL	1.8	1.3, 2.5	-3.5
8	Malnutrition	1.9	1.5, 2.2	-11.2	Alcohol use	1.8	1.2, 2.4	17.6
9	Alcohol use	1.6	1.0, 2.3	24.0	Malnutrition	1.8	1.5, 2.1	-11.8
10	Drug use	1.5	1.2, 1.8	39.8	Drug use	1.6	1.3, 1.9	42.5

■ Behavioural risks
■ Environmental & occupational risks
■ Metabolic risks

Figure S13. Leading 10 level-2 risk factors for Norway and each Norwegian county by population attributable fraction (PAF) for all-cause DALY rate per 100 000 female inhabitants. Age-standardised. Change = percentage change in summary exposure variable (SEV) between 1990 and 2019. DALY = Disability-Adjusted Life Year.

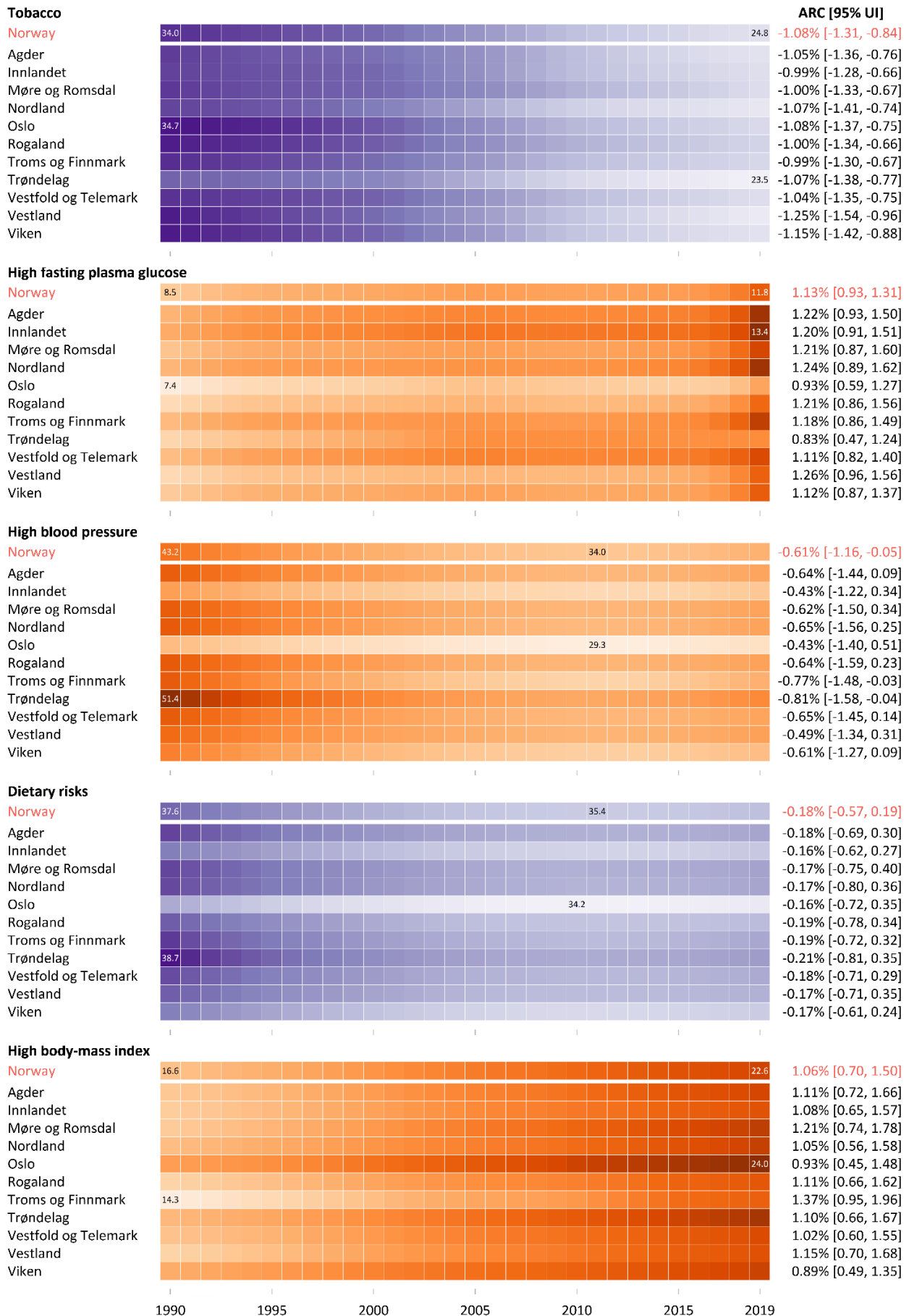


Figure S14. Exposure to the top-10 level-2 risk factors for disability-adjusted life years in Norway and each Norwegian county. Colour scale reflects age-adjusted summary exposure variable (SEV) values and is anchored in the minimum SEV (black labels) and maximum SEV (white labels) in any county between 1990 and 2019. ARC = Annualised rate of change. Purple panels = Behavioural risks, Green panels = Environmental and occupational risks, Orange panels = Metabolic risks

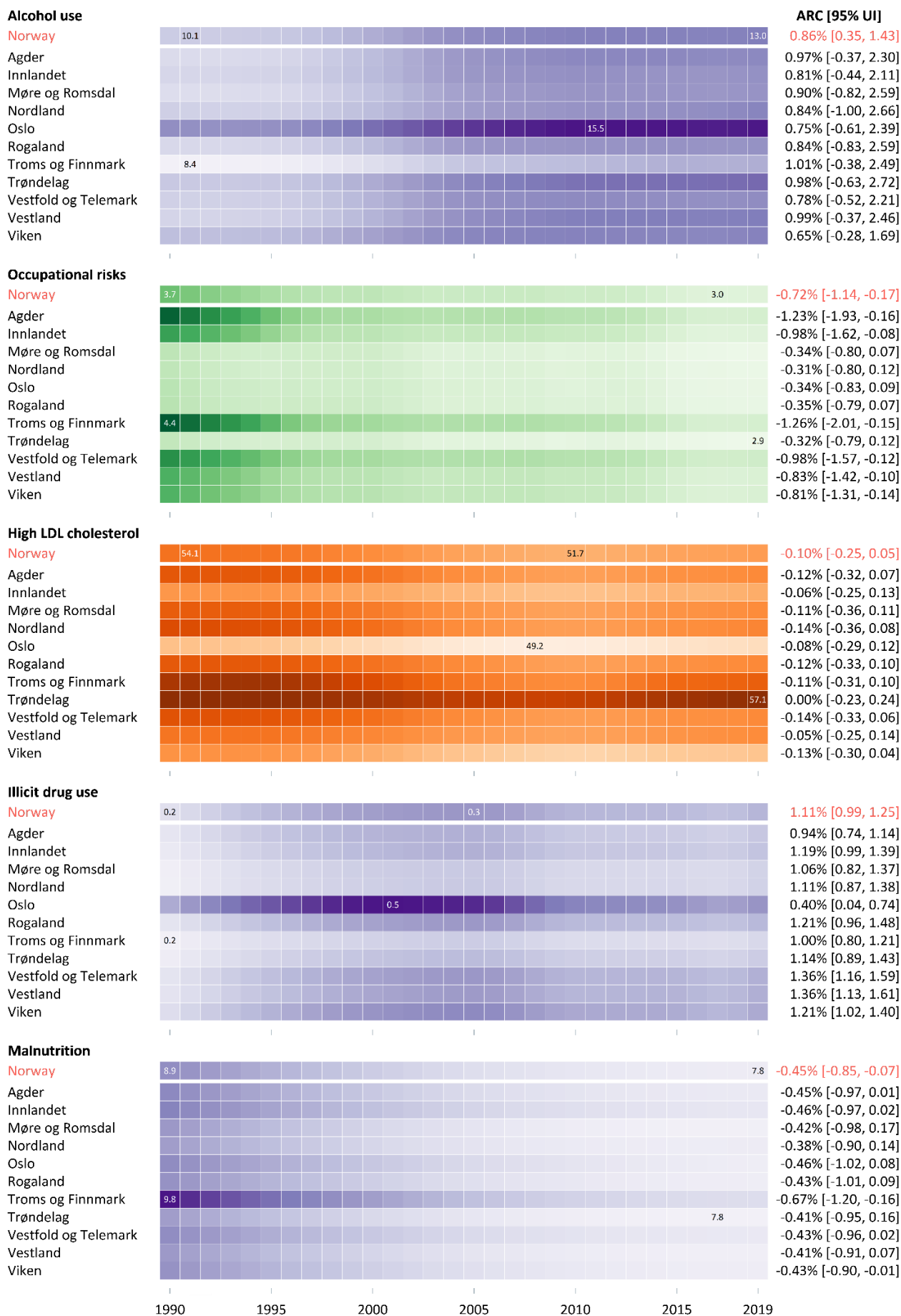


Figure S14 (cont.). Exposure to the top-10 level-2 risk factors for disability-adjusted life years in Norway and each Norwegian county. Colour scale reflects age-adjusted summary exposure variable (SEV) values and is anchored in the minimum SEV (black labels) and maximum SEV (white labels) in any county between 1990 and 2019. ARC = Annualised rate of change. Purple panels = Behavioural risks, Green panels = Environmental and occupational risks, Orange panels = Metabolic risks

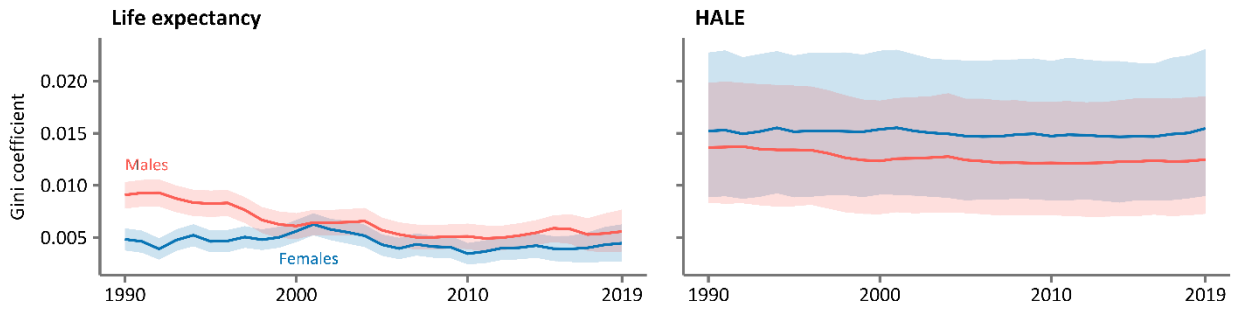


Figure S15a. Gini coefficient life expectancy and healthy life expectancy (HALE) across all Norwegian counties, 1990-2019. Shaded areas represent 95% uncertainty bands.

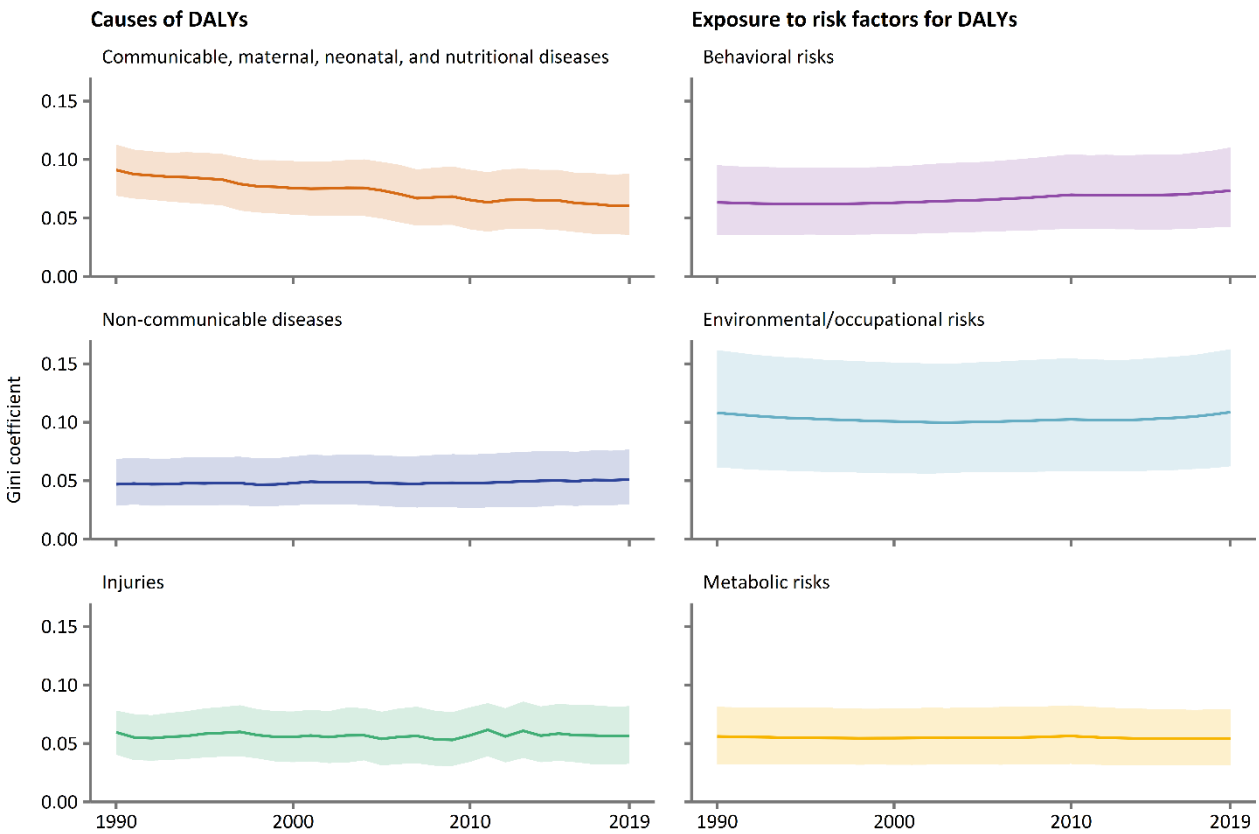


Figure S15b. Gini coefficient for level-1 causes of DALYs and level-1 risk factors for DALYS across all Norwegian counties, 1990-2019. Shaded areas represent 95% uncertainty bands.

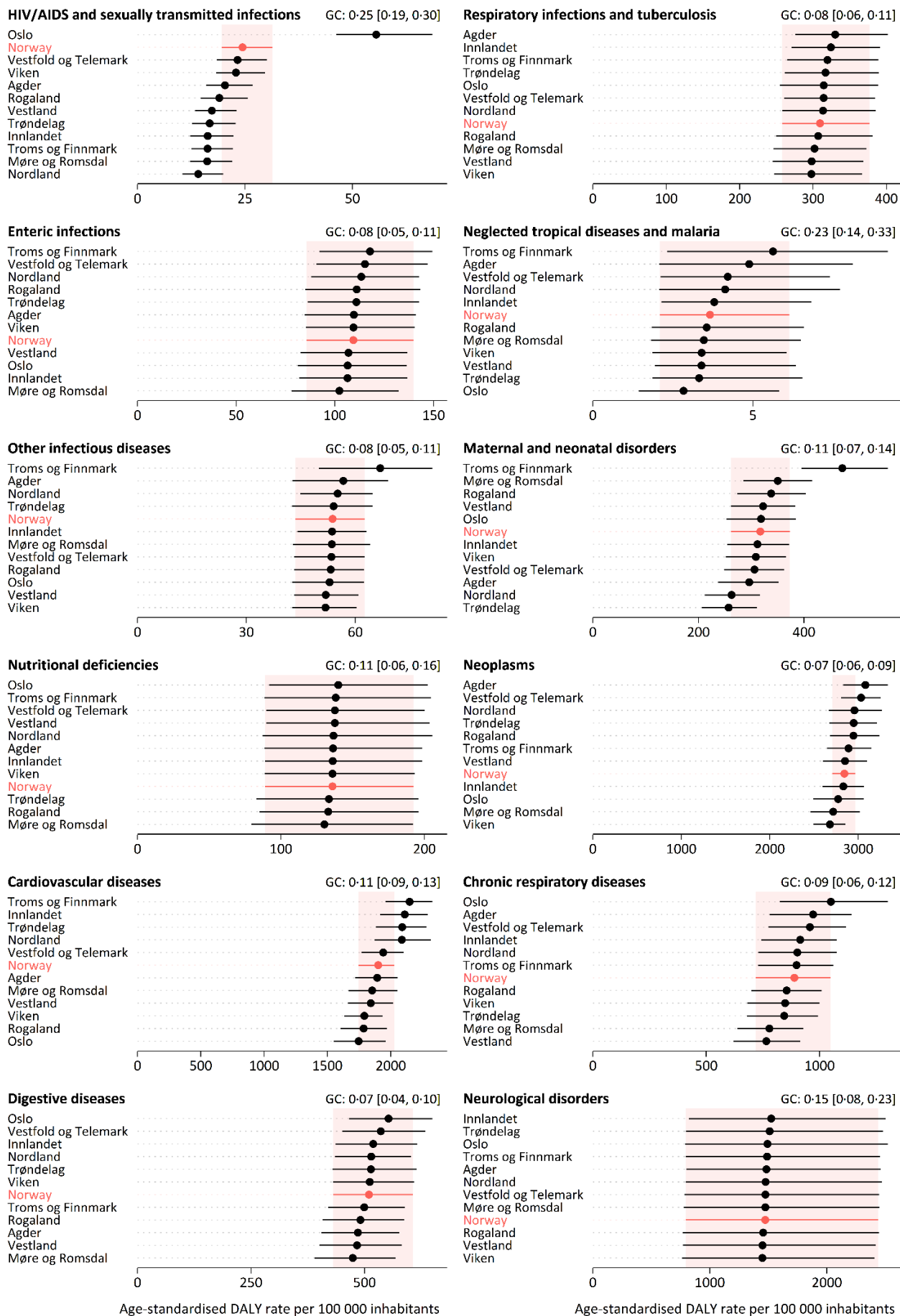


Figure S16. Gini coefficient and national and county-level estimates for level-2 cause group DALY rates in 2019. Shaded area represents the 95% uncertainty interval for the national YLL rate. GC = Gini coefficient and 95% uncertainty interval, DALY =Disability-Adjusted Life Year. Note: Gini coefficient estimates are higher when there is larger uncertainty in the underlying estimates

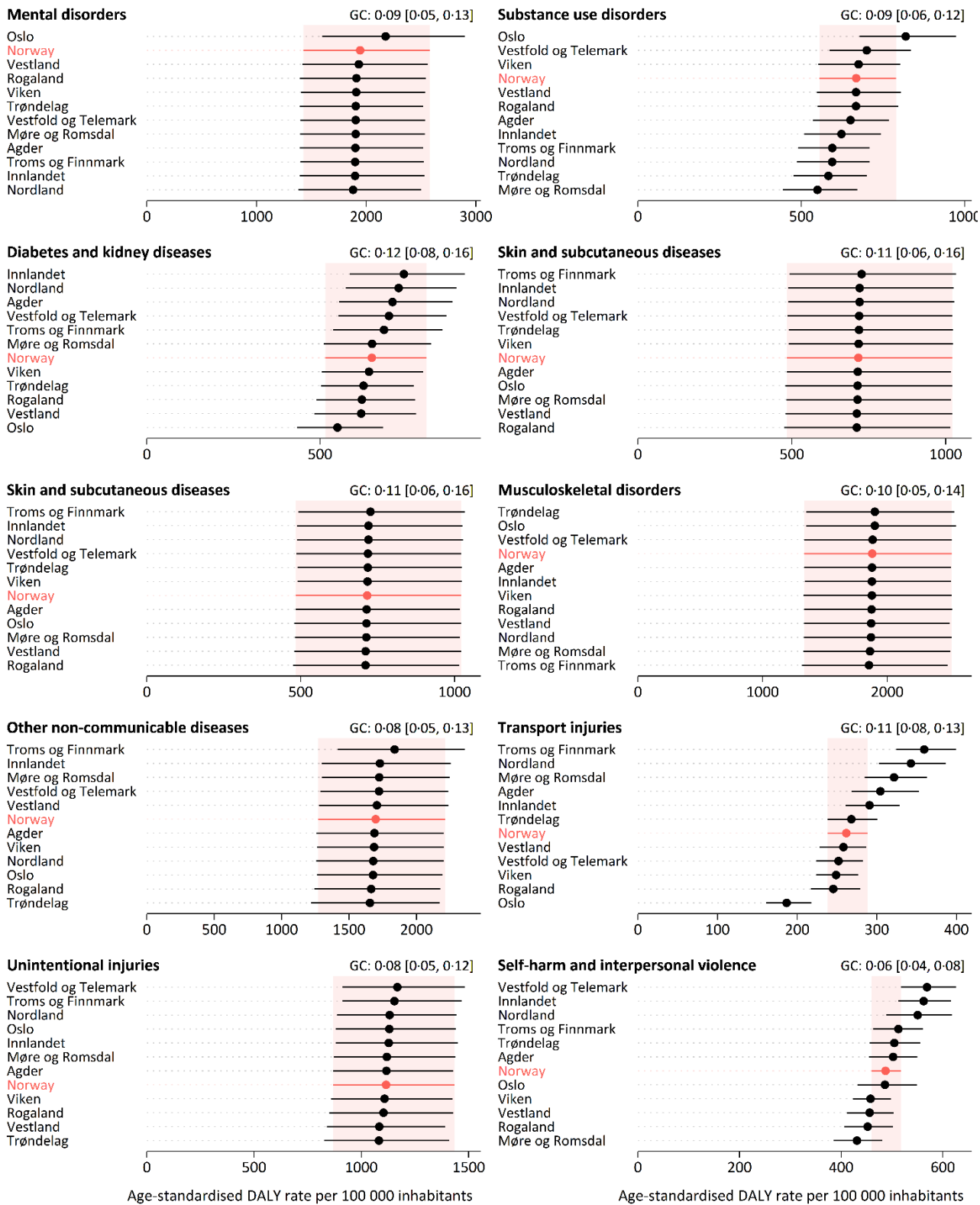


Figure S16 (cont.). Gini coefficient and national and county-level estimates for level-2 cause group DALY rates in 2019. Shaded area represents the 95% uncertainty interval for the national YLL rate. GC = Gini coefficient and 95% confidence interval, DALY =Disability-Adjusted Life Year. Note: Gini coefficient estimates are higher when there is larger uncertainty in the underlying estimates

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