

Table S1: Prevalence of gout in 1990 and 2019 and the percentage change in the age-standardised rates (ASRs) per 100,000 in the North Africa and the Middle East region
(Generated from data available from <http://ghdx.healthdata.org/gbd-results-tool>)

	1990		2019		Percentage change in ASRs per 100,000
	No (95% UI)	ASRs per 100,000 (95% UI)	No (95% UI)	ASRs per 100,000 (95% UI)	
North Africa and Middle East	857082 (681502, 1072547)	454.6 (363.3, 569)	2455601 (1940521, 3045022)	509.1 (406, 633.9)	12 (10.1, 13.9)
Afghanistan	28729 (22655, 37110)	401.6 (318.9, 507.4)	67747 (53802, 84327)	437.9 (349.6, 543.6)	9.1 (2.6, 15.8)
Algeria	57855 (45600, 72318)	441.8 (349.9, 548.9)	184417 (145466, 232406)	509.1 (399.3, 637.9)	15.2 (8.3, 22.4)
Bahrain	1448 (1131, 1809)	535 (418.7, 671.8)	9085 (7019, 11495)	611.5 (485.4, 762.1)	14.3 (7.1, 22.1)
Egypt	149196 (118480, 186278)	463.4 (369.7, 582.6)	374416 (293642, 470254)	540.5 (430.3, 674.5)	16.7 (10.4, 23.5)
Iran (Islamic Republic of)	132170 (102722, 167135)	455.2 (361.8, 573.1)	390085 (307601, 486535)	489.3 (388.1, 616.9)	7.5 (5.4, 9.3)
Iraq	41915 (32928, 52194)	489.5 (386.1, 612.4)	132187 (103630, 163705)	498.8 (395.2, 619.9)	1.9 (-3.9, 8.1)
Jordan	7563 (5973, 9451)	476.1 (378, 590.1)	42332 (33155, 52869)	543.6 (429.6, 678.2)	14.2 (7.7, 20.9)
Kuwait	5304 (4128, 6650)	575.1 (448.6, 724.2)	22340 (17580, 28038)	612.2 (485.7, 762.6)	6.5 (-0.5, 15.2)
Lebanon	10984 (8588, 13903)	463.3 (364.5, 583.9)	26596 (21125, 33162)	504.8 (400.9, 633.2)	9 (2.6, 15.6)
Libya	10559 (8330, 13215)	506.3 (400.3, 632.4)	31013 (24447, 38517)	525.6 (418.7, 659.2)	3.8 (-2.1, 9.9)
Morocco	63347 (50153, 79926)	426.4 (339.4, 537.5)	157478 (125035, 198113)	476.3 (381.3, 597.3)	11.7 (6.3, 18.3)
Oman	4162 (3283, 5179)	452.2 (358.5, 565.5)	16883 (13104, 21241)	574.8 (454.3, 723.6)	27.1 (19.5, 35.4)
Palestine	4123 (3259, 5147)	440 (350.4, 549.1)	13342 (10565, 16661)	475.3 (373.9, 590.6)	8 (1.6, 14.9)
Qatar	1531 (1166, 1959)	622.4 (489.6, 780.6)	14251 (10929, 18189)	734.8 (582.2, 921.1)	18.1 (10, 27.2)
Saudi Arabia	38172 (30051, 47291)	513.6 (409, 643.6)	157065 (122656, 199612)	607.8 (483, 760.2)	18.3 (11, 25.4)

Sudan	41330 (32987 , 51609)	409.4 (325.1 , 511.7)	103804 (81093 , 129860)	486.4 (383.9 , 615.4)	18.8 (11.7 , 25.7)
Syrian Arab Republic	26937 (21260 , 33632)	465.7 (370.9 , 581.3)	63962 (50266 , 81403)	493.5 (393.2 , 623.2)	6 (0.3 , 12.1)
Tunisia	23816 (18872 , 29524)	444.5 (352.5 , 550)	61954 (48867 , 78282)	479.3 (380.9 , 602.7)	7.8 (1.8 , 15)
Turkey	180731 (141587 , 225875)	463.9 (366.3 , 579.4)	462176 (364077 , 573854)	507.8 (400.6 , 634.6)	9.5 (3.6 , 15.2)
United Arab Emirates	5098 (3875 , 6527)	552.6 (437 , 694.2)	54993 (40988 , 71980)	664.8 (525.4 , 831.2)	20.3 (11.8 , 29.5)
Yemen	21536 (16996 , 27033)	380 (301 , 479.9)	66982 (53318 , 82420)	427.8 (340.5 , 534.9)	12.6 (5.7 , 19.8)

Table S2: Incidence of gout in 1990 and 2019 and the percentage change in the age-standardised rates (ASRs) per 100,000 in the North Africa and the Middle East region
(Generated from data available from <http://ghdx.healthdata.org/gbd-results-tool>)

	1990		2019		Percentage change in ASRs per 100,000
	No (95% UI)	ASRs per 100,000 (95% UI)	No (95% UI)	ASRs per 100,000 (95% UI)	
North Africa and Middle East	174221 (139118 , 217815)	88 (70.5 , 110.9)	490264 (389868 , 606813)	97.7 (78.5 , 123.2)	11.1 (9.2 , 12.9)
Afghanistan	5741 (4579 , 7298)	78.8 (63.1 , 99.8)	14470 (11369 , 18333)	85.9 (68.8 , 108.9)	9 (2.5 , 16.2)
Algeria	11787 (9323 , 14822)	85.6 (68.4 , 107.3)	36290 (28880 , 45641)	97.2 (77.3 , 122.6)	13.5 (6.8 , 19.7)
Bahrain	309 (238 , 386)	102 (81.4 , 127.9)	1818 (1376 , 2311)	115.4 (91.6 , 144.3)	13.1 (6.6 , 20.3)
Egypt	30167 (23805 , 37263)	89.2 (71.3 , 111.9)	74402 (59281 , 92868)	102.4 (82.2 , 128.5)	14.8 (8.8 , 21.5)
Iran (Islamic Republic of)	27337 (21575 , 34723)	89.2 (71.2 , 113)	78473 (61932 , 98315)	95.7 (76.2 , 121.4)	7.2 (5.4 , 9)
Iraq	8378 (6648 , 10401)	93 (73.9 , 116.8)	26852 (21041 , 33650)	95.6 (76 , 121.1)	2.8 (-2.8 , 8.7)
Jordan	1567 (1235 , 1963)	91.4 (72.8 , 116.4)	8503 (6621 , 10761)	103.3 (82.4 , 131.3)	13 (6.4 , 19.2)
Kuwait	1114 (855 , 1399)	108.4 (86.1 , 137.9)	4469 (3420 , 5600)	113.5 (90 , 143.2)	4.7 (-1.6 , 12)
Lebanon	2159 (1698 , 2748)	88.9 (70.8 , 113)	5069 (4058 , 6345)	95.7 (76.5 , 120.5)	7.7 (1.8 , 14)
Libya	2122 (1683 , 2638)	96.5 (76.9 , 122)	6174 (4849 , 7672)	100.1 (80.1 , 124.9)	3.8 (-2.1 , 9.9)
Morocco	12905 (10311 , 16346)	83 (66.5 , 105.7)	31153 (24450 , 39270)	92 (73 , 116.2)	10.8 (4.3 , 16.7)
Oman	897 (692 , 1119)	89.1 (70.1 , 112.4)	3651 (2782 , 4600)	110.2 (87.7 , 138.6)	23.7 (16.4 , 32.3)
Palestine	836 (668 , 1050)	84.8 (67.9 , 107.6)	2729 (2135 , 3400)	91.5 (72.8 , 115.3)	7.9 (2 , 13.8)
Qatar	332 (248 , 429)	117.5 (93.2 , 147.4)	3048 (2311 , 3873)	137 (109.7 , 174.1)	16.7 (8.8 , 24.9)
Saudi Arabia	7955 (6229 , 9911)	98.7 (78.2 , 125)	32533 (24732 , 40855)	114.2 (91.4 , 143.5)	15.8 (9.7 , 22.8)

Sudan	8499 (6785 , 10705)	80.4 (64.3 , 101.1)	21297 (16849 , 26431)	93.8 (74.8 , 119.4)	16.6 (9.7 , 23.3)
Syrian Arab Republic	5481 (4360 , 6799)	89.7 (71.6 , 112.7)	12440 (9830 , 15832)	94.1 (75 , 119.2)	5 (-0.7 , 10.6)
Tunisia	4765 (3785 , 5939)	85.8 (68.6 , 107.3)	11997 (9508 , 15219)	92.2 (73.4 , 116.6)	7.4 (2.2 , 13.1)
Turkey	36087 (28713 , 45268)	89.1 (70.9 , 112.6)	88711 (70737 , 111000)	96.6 (77.2 , 121.7)	8.5 (3 , 14.4)
United Arab Emirates	1132 (833 , 1442)	106.4 (85.4 , 133.6)	11590 (8466 , 15033)	125.7 (100.7 , 157.9)	18.1 (10.5 , 25.2)
Yemen	4534 (3575 , 5695)	75.5 (60.2 , 95.3)	14099 (11239 , 17368)	84.1 (67.4 , 104.8)	11.5 (5.2 , 17.8)

Table S3: YLDs due to gout in 1990 and 2019 and the percentage change in the age-standardised rates (ASRs) per 100,000 in the North Africa and the Middle East region
(Generated from data available from <http://ghdx.healthdata.org/gbd-results-tool>)

	1990		2019		Percentage change in ASRs per 100,000
	No (95% UI)	ASRs per 100,000 (95% UI)	No (95% UI)	ASRs per 100,000 (95% UI)	
North Africa and Middle East	27137 (16907 , 38843)	14.2 (8.9 , 20.4)	77514 (48808 , 111730)	15.8 (10 , 22.7)	11.7 (7.1 , 16.4)
Afghanistan	886 (550 , 1309)	12.3 (7.7 , 17.7)	2113 (1314 , 3066)	13.2 (8.3 , 19.2)	8 (-5.9 , 23.4)
Algeria	1837 (1152 , 2700)	13.8 (8.7 , 20.3)	5822 (3632 , 8416)	15.9 (9.9 , 23)	14.9 (1.3 , 32)
Bahrain	47 (29 , 69)	16.6 (10.3 , 24.3)	291 (180 , 434)	18.9 (12 , 27.5)	13.9 (-0.7 , 30.5)
Egypt	4744 (2944 , 6940)	14.5 (9.2 , 21.1)	11900 (7337 , 17404)	16.9 (10.5 , 24.4)	16.3 (1.8 , 32.9)
Iran (Islamic Republic of)	4172 (2591 , 6028)	14.1 (8.7 , 20.4)	12230 (7692 , 17716)	15.2 (9.5 , 22)	7.5 (3.9 , 11.5)
Iraq	1306 (810 , 1882)	15 (9.4 , 21.5)	4159 (2661 , 5969)	15.4 (10 , 22.2)	2.5 (-10.5 , 17.2)
Jordan	242 (151 , 361)	14.9 (9.4 , 21.8)	1353 (837 , 1980)	17 (10.5 , 24.5)	14.2 (0.3 , 30.1)
Kuwait	172 (105 , 250)	18.1 (11.1 , 26.5)	714 (432 , 1055)	19 (11.7 , 27.6)	5.2 (-7 , 20.7)
Lebanon	344 (213 , 514)	14.4 (8.9 , 21)	821 (516 , 1182)	15.5 (9.8 , 22.5)	8.1 (-5 , 24.1)
Libya	336 (210 , 499)	15.8 (9.9 , 23.6)	973 (598 , 1433)	16.2 (10 , 23.8)	2.3 (-10.2 , 16.5)
Morocco	2016 (1272 , 2944)	13.4 (8.4 , 19.5)	4964 (3100 , 7149)	14.8 (9.2 , 21.5)	10.9 (-3 , 26.7)
Oman	134 (84 , 199)	14.1 (8.7 , 20.7)	547 (338 , 798)	17.9 (11.2 , 25.7)	26.6 (9.6 , 46.2)
Palestine	129 (83 , 187)	13.6 (8.8 , 19.8)	419 (260 , 603)	14.6 (9.1 , 21.2)	7.3 (-6 , 22.6)
Qatar	50 (30 , 74)	19.4 (12.2 , 28.1)	461 (283 , 683)	22.5 (14.5 , 32.7)	16.4 (0.9 , 34.5)
Saudi Arabia	1211 (749 , 1786)	15.9 (9.8 , 23.3)	4996 (3196 , 7188)	18.6 (11.8 , 26.7)	17.5 (2.8 , 35.1)

Sudan	1306 (826 , 1865)	12.8 (8.1 , 18.5)	3288 (2104 , 4821)	15.1 (9.6 , 22)	18.5 (2.7 , 34.6)
Syrian Arab Republic	858 (539 , 1250)	14.6 (9.1 , 21.2)	2003 (1243 , 2926)	15.3 (9.7 , 22.3)	4.5 (-8.9 , 19.7)
Tunisia	752 (471 , 1083)	13.9 (8.8 , 19.9)	1936 (1196 , 2795)	14.9 (9.2 , 21.5)	7.3 (-6.2 , 23.6)
Turkey	5727 (3537 , 8330)	14.5 (8.9 , 20.9)	14525 (9000 , 21308)	15.9 (9.9 , 23.3)	9.4 (-4 , 25.7)
United Arab Emirates	166 (99 , 251)	17.2 (10.7 , 24.7)	1788 (1077 , 2712)	20.5 (12.9 , 29.9)	19.6 (3 , 39.5)
Yemen	685 (420 , 1012)	11.9 (7.4 , 17.5)	2133 (1349 , 3134)	13.3 (8.4 , 19.5)	12.4 (-2.2 , 29)

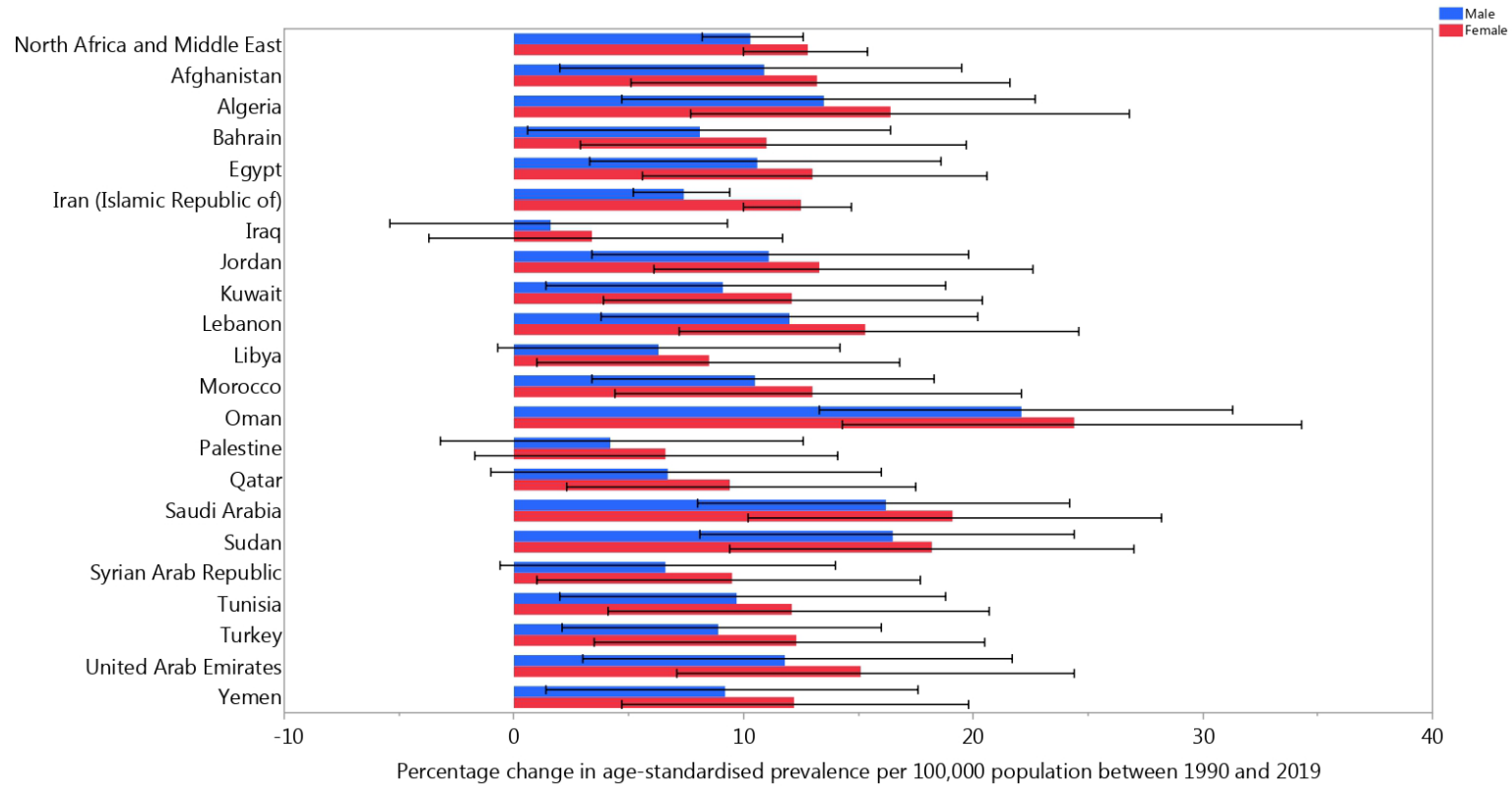


Figure S1: The percentage change in the age-standardised point prevalence of gout in the Middle East and North Africa region from 1990 to 2019, by sex and country. (Generated from data available from <http://ghdx.healthdata.org/gbd-results-tool>).

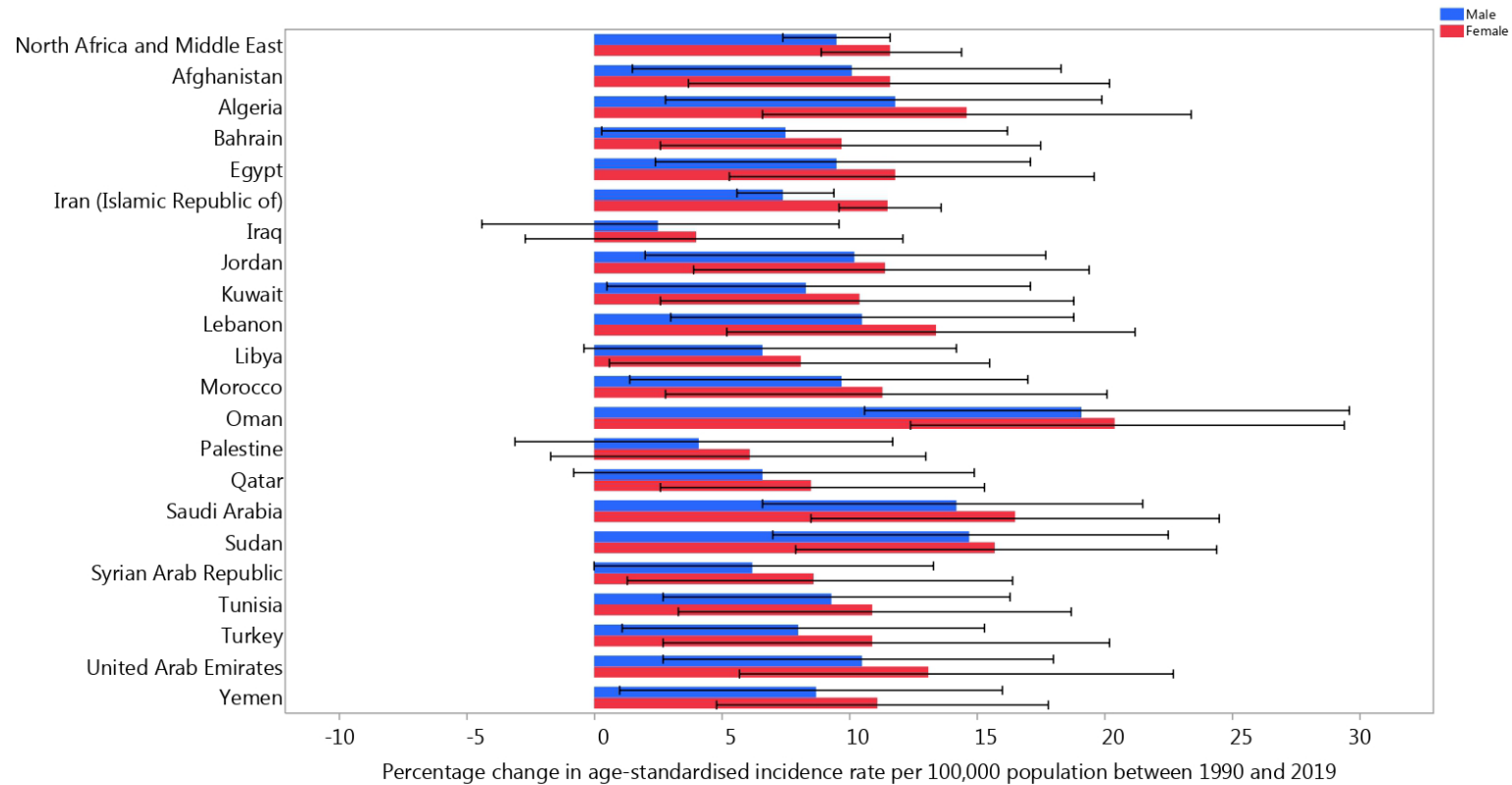


Figure S2: The percentage change in the age-standardised incidence of gout in the Middle East and North Africa region from 1990 to 2019, by sex and country. (Generated from data available from <http://ghdx.healthdata.org/gbd-results-tool>).

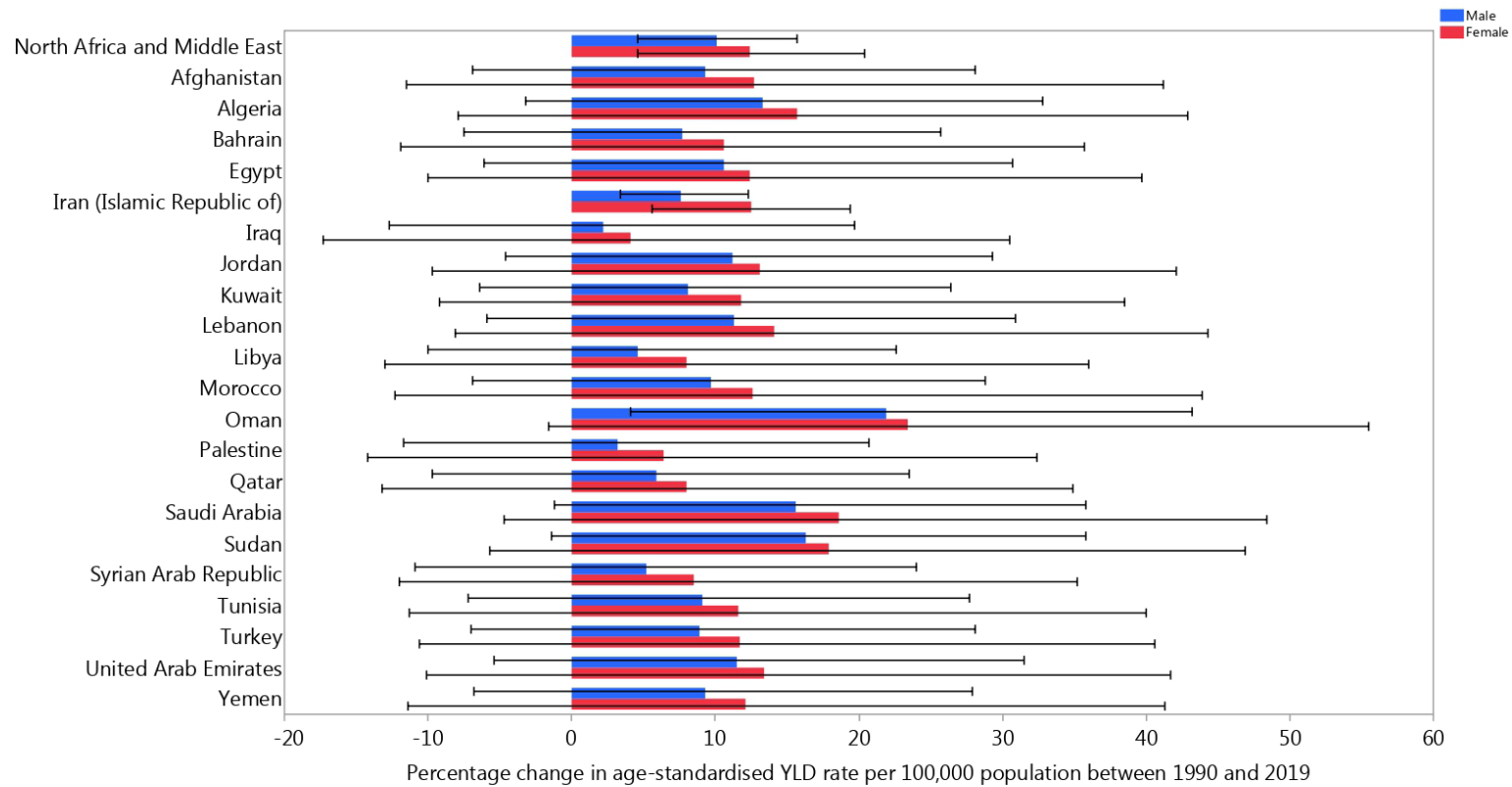


Figure S3: The percentage change in the age-standardised YLDs of gout in the Middle East and North Africa region from 1990 to 2019, by sex and country. YLD= years lived with disability. (Generated from data available from <http://ghdx.healthdata.org/gbd-results-tool>).