

Figure S1. Absolute numbers of new case, prevalent cases and deaths of hypertension in Kazakhstan for 2014 – 2019 years.

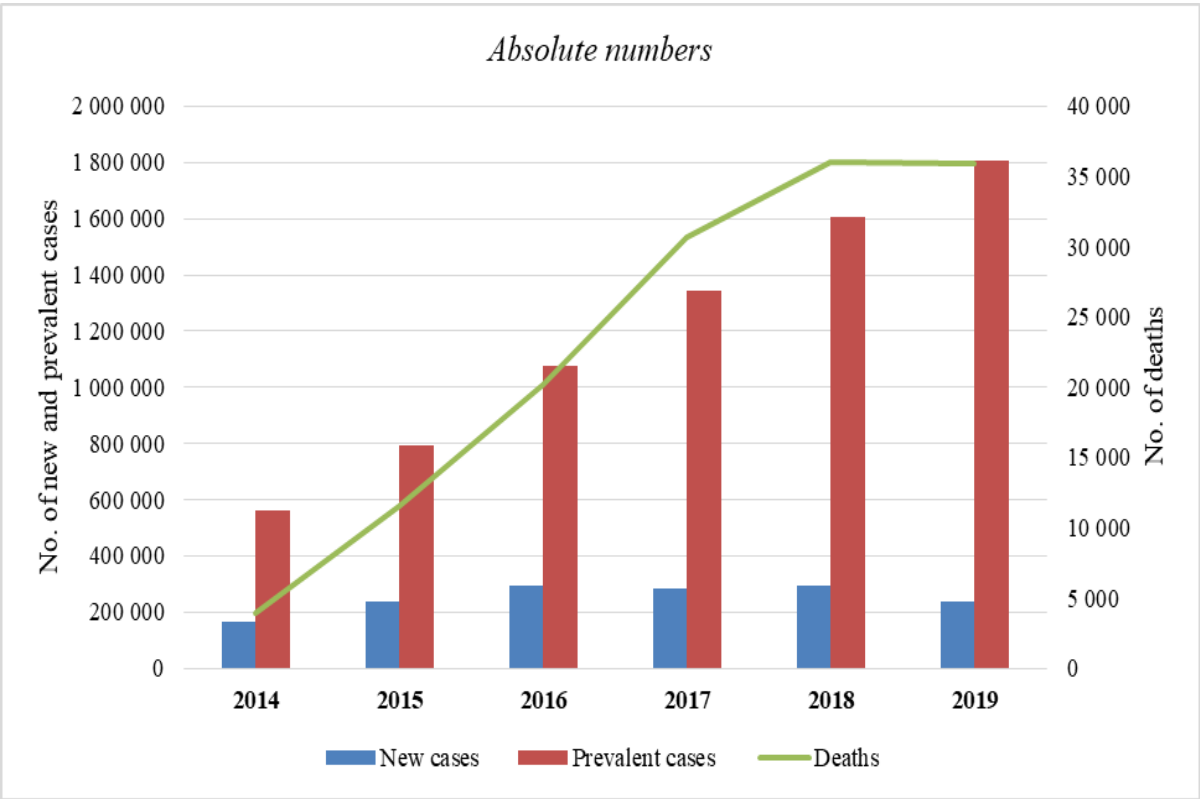


Figure S2. Crude (A) and age standardized incidence (B) rates of hypertension for men and women.

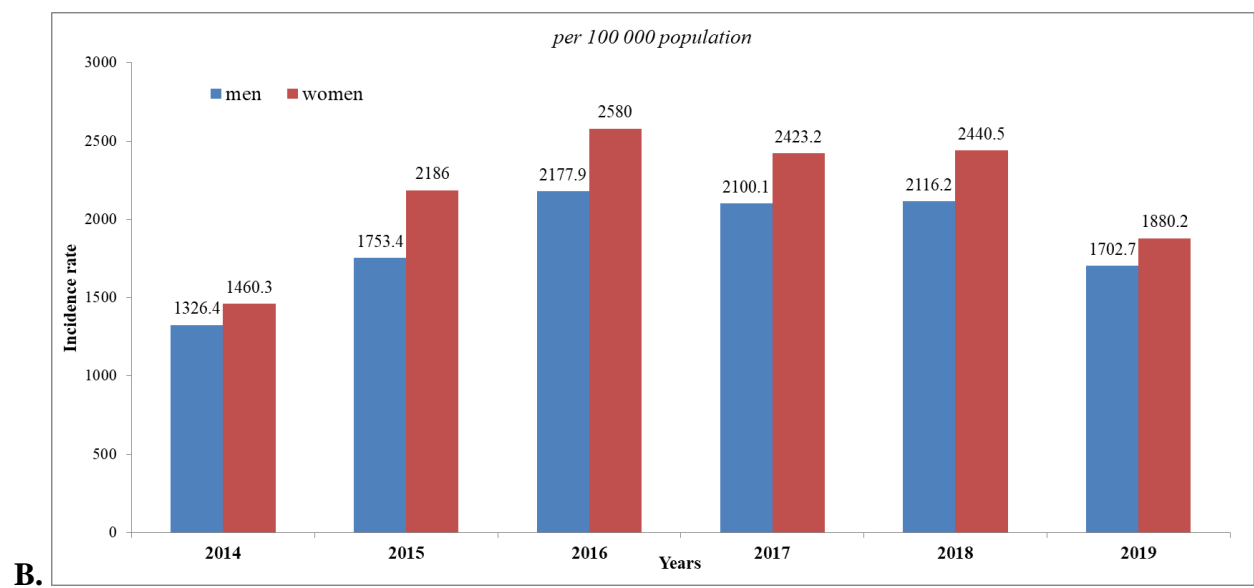
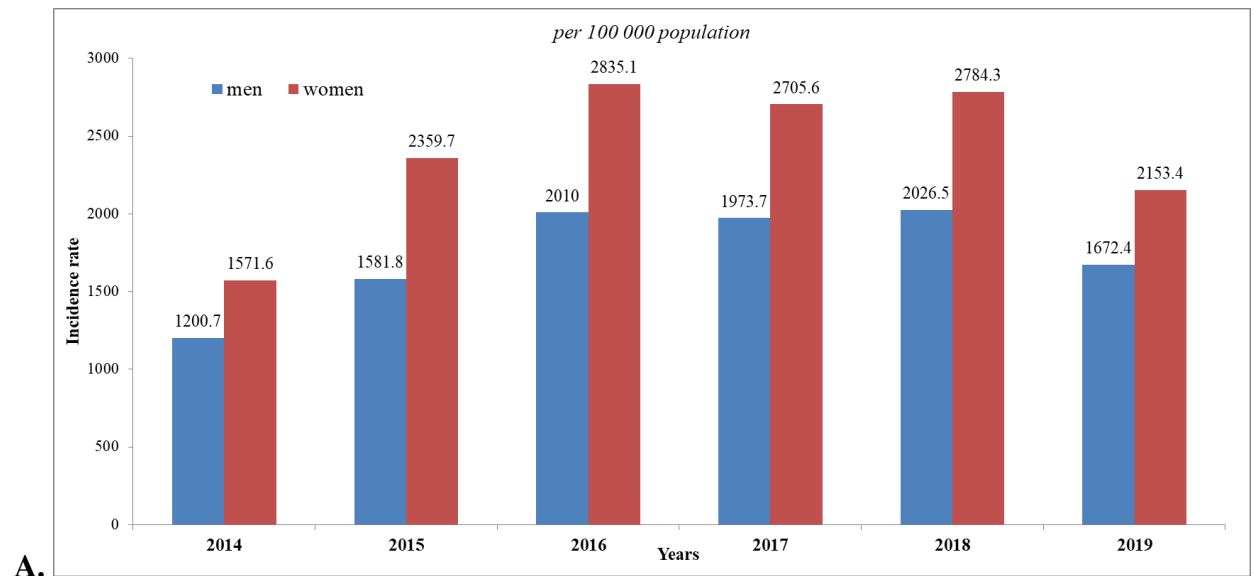


Figure S3. Crude incidence rate of hypertension for urban and rural population.

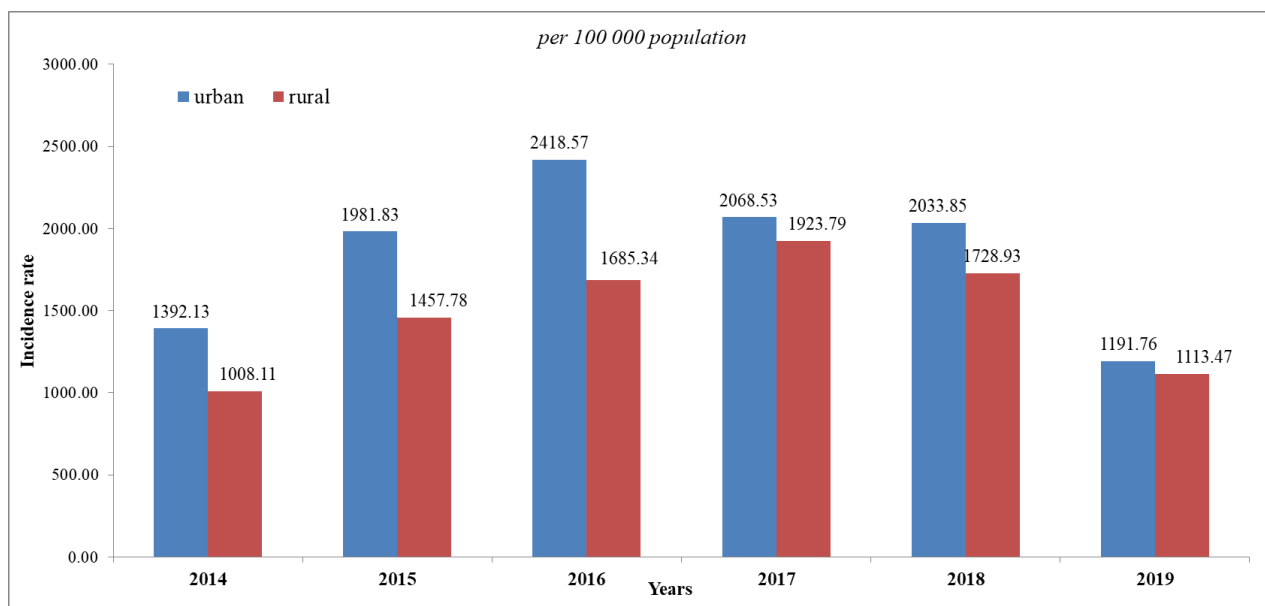


Figure S4. Crude (A) and age & sex standardized (B) all-cause mortality rates of hypertension patients in Kazakhstan.

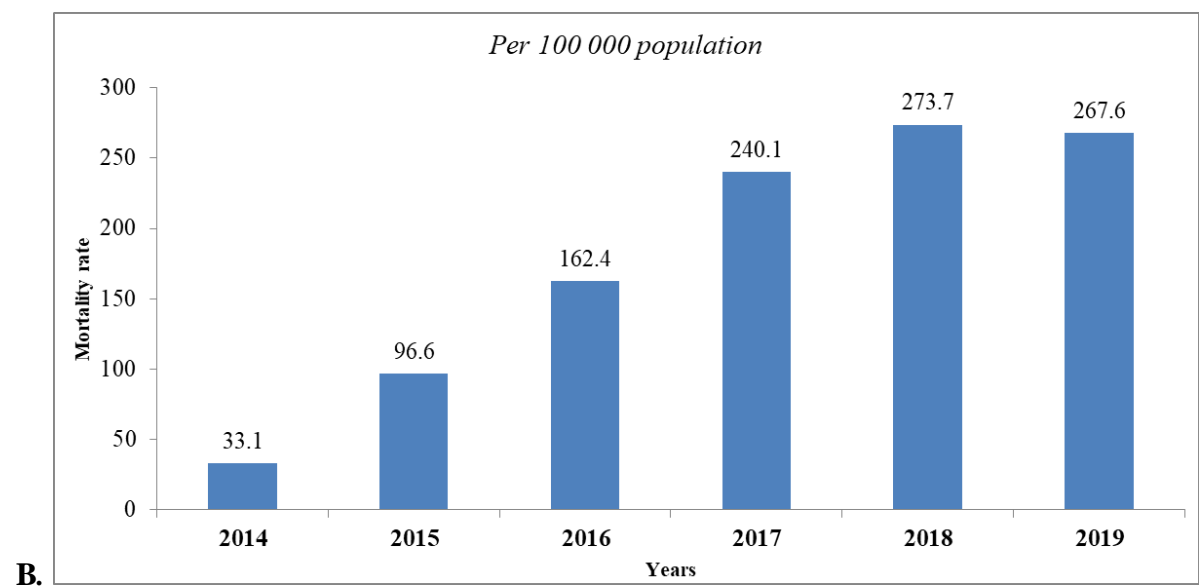
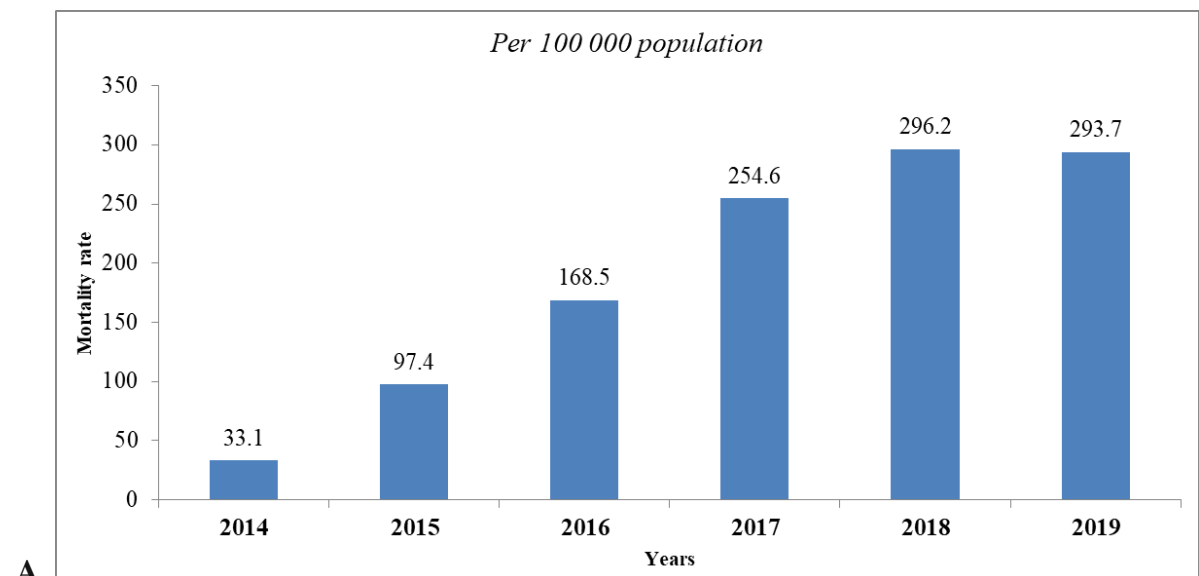


Table S1. Multivariable Cox proportional hazards regression analysis with unadjusted and adjusted values for 2014 – 2019 years.

Variables	Unadjusted (95% CI)	p-value	Model 1* (95% CI)	p-value	Model 2** (95% CI)	p-value
Gender						
Women	Ref.		Ref.		Ref.	
Men	1.71 [1.69 - 1.72]	<i>p</i> <0.001	1.98 [1.96 - 2.00]	<i>p</i> <0.001	1.93 [1.91 - 1.95]	<i>p</i> <0.001
Age groups						
18-24	Ref.		Ref.			
25-34	1.41 [1.09 - 1.81]		1.59 [1.23 - 2.05]		1.49 [1.15 - 1.94]	
35-44	1.95 [1.54 - 2.49]		2.29 [1.81 - 2.92]		2.19 [1.72 - 2.81]	
45-54	3.13 [2.46 - 3.97]	<i>p</i> <0.001	3.73 [2.94 - 4.73]	<i>p</i> <0.001	3.52 [2.75 - 4.49]	<i>p</i> <0.001
55-64	6.34 [4.99 - 8.04]		7.59 [5.98 - 9.64]		6.97 [5.46 - 8.89]	
65-74	13.38 [10.54 - 16.98]		16.52 [13.01 - 20.97]		14.86 [11.64 - 18.97]	
75<	35.68 [28.11 - 45.31]		45.66 [35.97 - 57.97]		40.44 [31.68 - 51.62]	
Ethnicity						
Kazakh	Ref.		Ref.			
Russian	1.56 [1.54 - 1.58]	<i>p</i> <0.001	1.18 [1.17 - 1.19]	<i>p</i> <0.001	1.21 [1.19 - 1.22]	<i>p</i> <0.001
Other	1.43 [1.41 - 1.45]		1.15 [1.13 - 1.17]		1.15 [1.14 - 1.17]	
Place of residence						
Urban	Ref.		Ref.			
Rural	0.88 [0.88 - 0.89]	<i>p</i> <0.001	1.06 [1.05 - 1.07]	<i>p</i> <0.001	1.14 [1.13 - 1.15]	<i>p</i> <0.001
Comorbidities						
Diabetes	1.32 [1.30 - 1.34]		1.35 [1.33 - 1.36]		1.27 [1.25 - 1.29]	
Stroke	3.31 [3.26 - 3.36]	<i>p</i> <0.001	2.69 [2.65 - 2.73]	<i>p</i> <0.001	2.62 [2.58 - 2.66]	<i>p</i> <0.001
Chronic Kidney Disease	3.49 [3.35 - 3.65]		4.54 [4.35 - 4.74]		4.18 [3.99 - 4.36]	

*Model 1: adjusted for sex and age.

**Model 2: adjusted for Model1+ethnicity, residence and comorbidities.