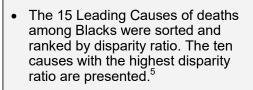
## **Disparities in HYPERTENSION Mortality Among** Blacks in Arkansas

Health disparities are gaps in health outcomes or determinants between segments of the population. Many health disparities are related to social determinants of health (Centers for Disease Control and Prevention, CDC).

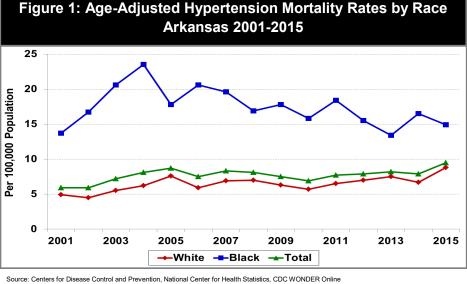
- Hypertension or high blood pressure, is caused by higher-than-normal blood pressure levels in the blood vessels. Long-term damage to the blood vessels and heart due to hypertension may lead to heart disease and stroke (CDC).
- In 2015, Arkansas ranked 11<sup>th</sup> in the nation for **hypertension** mortality (1<sup>st</sup> being the worst).<sup>1</sup>
- In 2015, a total of 329 Arkansans died due to hypertension, of which 17.0% were Black. •
- In 2014, total hospitalization costs for hypertension in Arkansas was over \$21.1 million. Thirty-five percent of those • costs (\$7.3 million) were for Blacks.<sup>2</sup>

Table 1: Leading Causes of Death by Black/White DisparityRatio, Arkansas 2011-2015					
Cause of Death <sup>3</sup>	White Rate⁴	Black Rate⁴	Disparity Ratio⁵	Preventable Deaths among Blacks <sup>6</sup>	
1. HIV	1.2	7.0	5.8	27	
2. Homicide	4.4	23.5	5.3	89	
3. Diabetes	21.9	51.2	2.3	137	
4. Perinatal Conditions	3.4	7.6	2.2	20	
5. Hypertension	7.3	15.7	2.2	39	
6. Kidney Disease	19.0	36.9	1.9	84	
7. Septicemia	14.5	23.9	1.6	44	
8. Stroke	46.4	61.9	1.3	73	
9. Heart Disease	215.2	261.2	1.2	215	
10. Cancer	187.9	212.4	1.1	115	

Source: Centers for Disease Control and Prevention, National Center for Health Statistics, CDC WONDER Online

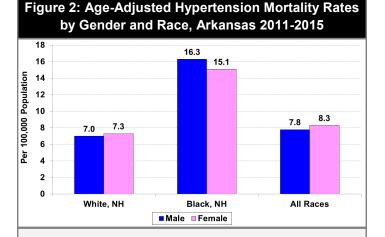


- **Hypertension** ranked fifth among the diseases examined.
- The hypertension age-adjusted mortality rate for Blacks was 15.7 per 100,000 population compared to 7.3 for Whites, 2.2 times higher than for Whites.5
- Preventable Deaths among Blacks showed that 39 Black lives could be saved if the mortality rate for Blacks was equal to the rate for Whites.<sup>6</sup>



- During the 2001-2015 time period, hypertension mortality rates among Blacks remained higher than the mortality rates for Whites.
- Hypertension mortality rates among Blacks had a slight decrease over the years, while the rates among Whites had a slight increase.
- Rates for Whites mirrored the State's trend during the 2001-2015 time period.

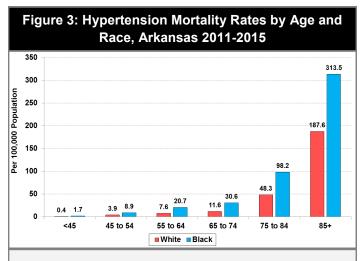
<sup>1</sup>CDC Wonder. <sup>2</sup>HCUP State Inpatient Databases 2014. Hospitalization cost includes hospital discharges with principal diagnosis of hypertension. <sup>3</sup>Based on the 15 lead-ing causes of death among Blacks. <sup>4</sup>Age-adjusted mortality rates for Non-Hispanic Whites and Non-Hispanic Blacks. <sup>5</sup>Disparity ratio calculated by dividing the mortality rate for Blacks by the mortality rate for Whites. 6Number of deaths that could have been prevented among Blacks in the absence of Black-to-White disparity.



• **Hypertension** mortality rates among Black males and females are twice as high as the rates among their White counterparts.

• This also holds true when Black male and female mortality rates are compared with the State's male and female mortality rates.

NH=Non-Hispanic Source: Centers for Disease Control and Prevention, National Center for Health Statistics, CDC WONDER Online



- Hypertension mortality rates among Blacks, across all age categories were two to four times higher than their White counterparts.
- Rate for younger Blacks, <45 years of age, was over four times higher than that of Whites within the same age category.

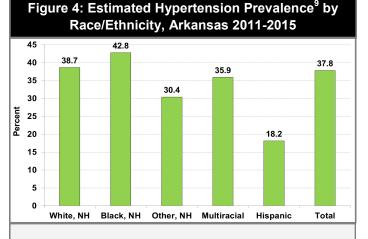
Source: Centers for Disease Control and Prevention, National Center for Health Statistics, CDC WONDER Online

## Table 2: Hypertension Mortality Rates and Disparity Ratios by Race and County, Arkansas 2011-2015

County	White Rate <sup>7</sup>	Black Rate <sup>7</sup>	Disparity Ratio <sup>8</sup>
1. Conway	4.6	25.3	5.5
2. St. Francis	8.2	32.8	4.0
3. Drew	4.4	16.7	3.8
4. Clark	9.1	30.8	3.4
5. Faulkner	5.2	15.9	3.0
6. Sebastian	4.5	13.0	2.9
7. Garland	8.7	24.9	2.9
8. Jefferson	7.7	19.5	2.5
9. Miller	10.5	20.9	2.0
10. Crittenden	16.8	32.3	1.9

- **Hypertension** mortality rates were sorted and ranked by disparity ratio. Only those counties with at least five total deaths and at least four total Black deaths were used in the analysis. Ten counties with the highest disparity ratio among Blacks were highlighted.
- Conway County had the highest disparity ratio of 5.5 in **hypertension** mortality for the 2011-2015 time period.
- Between 2011-2015, 38 counties had less than 10 deaths due to hypertension and one county had no deaths related to hypertension.

Source: Arkansas Health Statistics Branch Query System



- Hypertension prevalence rate among Blacks was somewhat higher than that of Whites. The prevalence rates for Blacks were higher than all other racial and ethnic groups.
- Regardless of race/ethnicity, hypertension remains a major area of public health concern.

NH=Non-Hispanic Source: Centers for Disease Control and Prevention, National Center for Health Statistics, CDC WONDER Online

<sup>7</sup>Age-adjusted mortality rates for Non-Hispanic Whites and Non-Hispanic Blacks. <sup>8</sup>Disparity ratio calculated by dividing the mortality rate for Blacks by the mortality rate for Whites. <sup>9</sup>Hypertension prevalence refers to the percentage of adults reporting a healthcare professional has told them they have high blood pressure.