



EMORY  
UNIVERSITY

Emory Global Diabetes  
Research Center

*Of the Woodruff Health Sciences Center*

# Notes

10<sup>th</sup> May 2024

# Estimates to

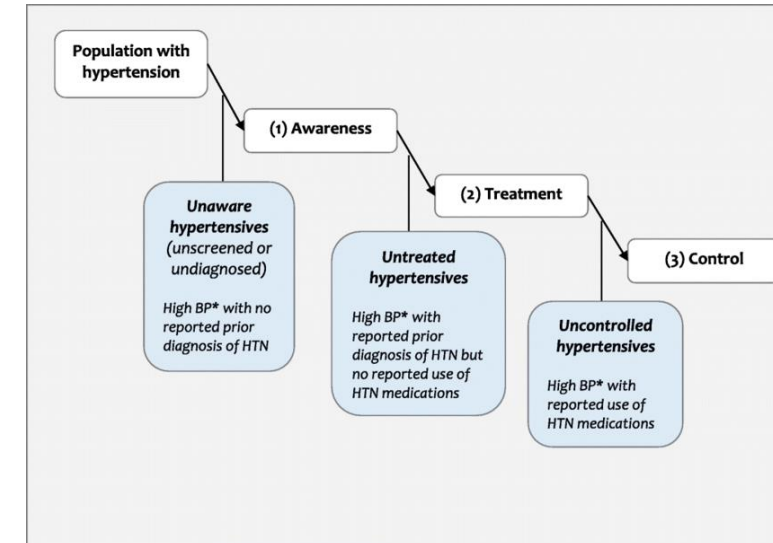
Strata	Categories	Geographical Resolution	Temporal Resolution	Available in BRFSS
Total	Adults 18+	National, state, county	1 year or 2 year	Yes
Age	18-44, 45-64, 65+	National, state, county	1 year or 2 year	Yes
Gender	Male, Female	National, state, county	1 year or 2 year	Yes
Race-ethnicity	Hispanic, NH White, NH Black, NH Asian Pacific Islander, Other or Not Specified	National, state, county	1 year or 2 year	No
Residence	Urban/Rural		1 year or 2 year	
Areal vulnerability	Area deprivation index quintiles [zip code index] 0-19, 20-39, 40-59, 60-79, 80-100	National, state, county	1 year or 2 year	
BMI Category	Underweight, Normal, Overweight, Obesity	National, state, county	1 year or 2 year	

# Hypertension

- Among people with measured blood pressure
  - Sample adjustment to population + non-response adjustment
- Diagnosed hypertension = Yes
- If No,
  - Is Systolic  $\geq 140$  mmHg or Diastolic  $\geq 90$  mm Hg

SBP [60,300]  
DBP [30, 300]

	Numerator	Denominator	Compared with
Cases of Hypertension	Diagnosed = Yes <b>OR</b> SBP $\geq 140$ <b>OR</b> DBP $\geq 90$	Total Population	NHANES (National)
Diagnosed Hypertension	Diagnosed = Yes	Total Population	BRFSS (Modeled County), Epic Cosmos (County)
Treated Hypertension	Treatment = Yes	Diagnosed = Yes	NHANES (National), BRFSS (Modeled County), Epic Cosmos (County)
Controlled Hypertension	SBP $< 140$ <b>AND</b> DBP $< 90$	Diagnosed = Yes*	NHANES (National), Epic Cosmos



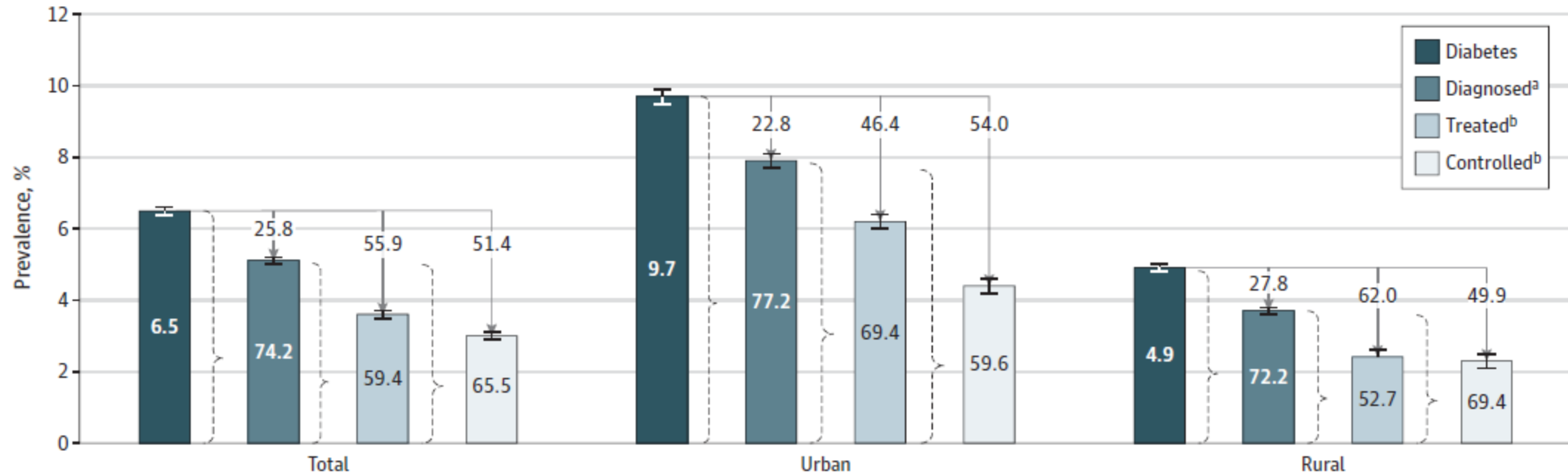
\* Could be among treated hypertension also

# Figures and Tables

- Table 1. Socio-demographic characteristics of total sample by temporal unit of resolution
- Figure 1. National care cascade of hypertension (by Total + 1 strata on X-axis; Y-axis is proportion, *see next slide*)
- Figure 2. State maps of hypertension care cascade
- Figure 3. County maps of hypertension care cascade (similar to map\_state\_year.pdf)
- Figure 4. Scatterplot of BRFSS and Pursuant Estimates (**2-D**)
- Supplementary Methods. Detailed methods for biostats people
- Supplementary Figures and Tables. Visualizing all comparisons in Slide #3

# Example of column plots

Figure 1. National-Level Diabetes Care Cascade in Analytic Sample by Urban and Rural Residence



All values shown as columns are age-standardized estimates of proportions (error bars represent 95% CIs) in the total population (n = 1 651 176). The values above bars are the decreased values from all patients with diabetes after sequential multiplication of age-standardized proportions. The dashed curly braces indicate the denominator for the different columns. Age-standardized estimates of the performance indicators were reported for different strata at the national level. Age standardization to the distribution of the total sample was performed because different strata of schooling and wealth have different age distributions.

<sup>a</sup> Proportions of diagnosed diabetes were derived from patients with diabetes (from Table).

<sup>b</sup> Proportions of treated and controlled diabetes were derived from patients diagnosed with diabetes (from Table).

# Overweight and Obesity

- Among people with measured BMI
- Overweight:  $25 \leq \text{BMI} < 30 \text{ kg/m}^2$
- Obesity:  $\text{BMI} \geq 30 \text{ kg/m}^2$

BMI [12, 60]