



# Racial Differences in Comorbid Conditions for Vascular Dementia Cases in South Carolina

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## Background

Types of dementia:

- Alzheimer's=70%
- Vascular Dementia = 10%

In the SC

- Alzheimer's = 69%
- Vascular Dementia= 11%
- Last summer's SC-ADAR project concluded that African Americans are diagnosed with Vascular Dementia younger and survive longer suggesting a need for longer-term care and more resources than other races. Interventions focusing on vascular health in this population are warranted.
- The literature shows that 76% of Vascular Dementia patients have a stroke history; hypertension and diabetes

## Objectives

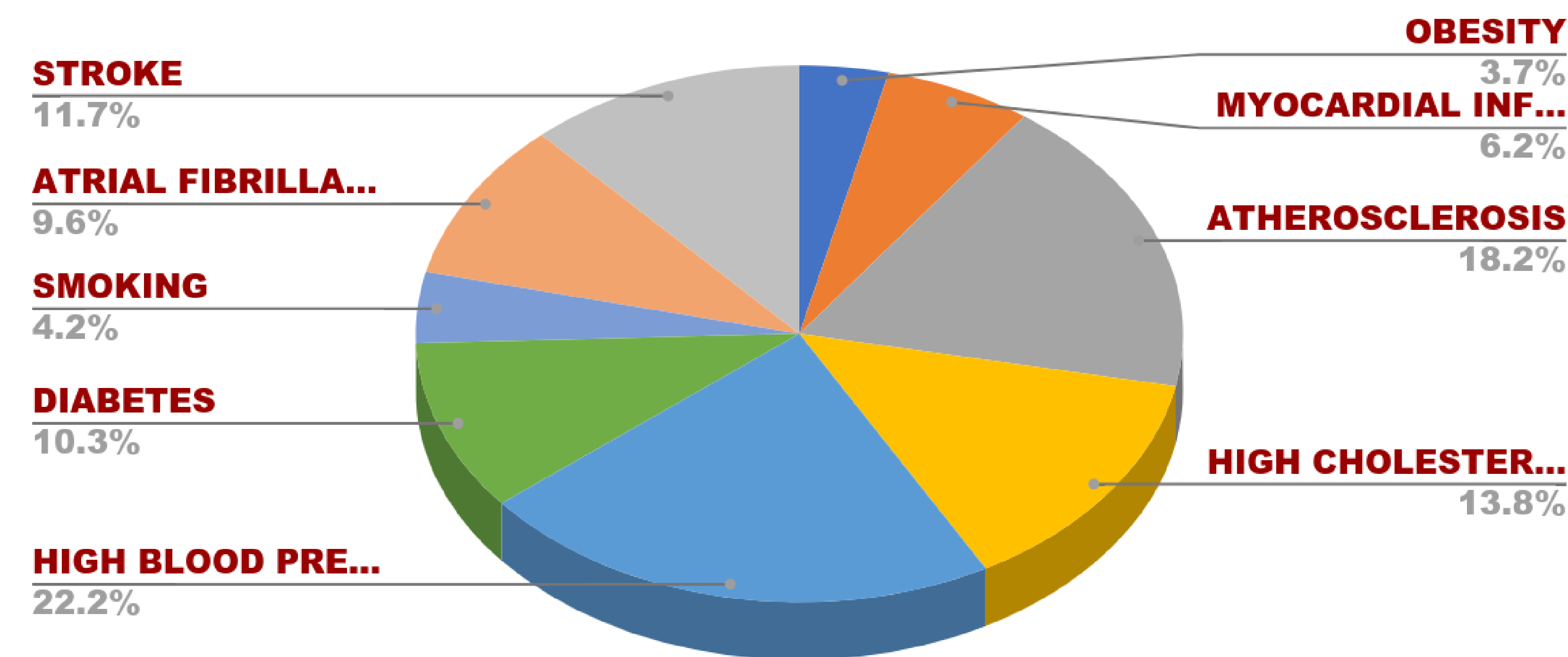
- 1) Compare vascular-related comorbidities (identified by ICD-9 and ICD-10 codes) using the SC AD Registry and statewide hospital records of vascular dementia cases in African Americans and Whites.
- 2) Identify various prevention strategies for vascular dementia

## Methods

- South Carolina Alzheimer's Disease and Related Dementia Registry data.
  - Use the data to locate Vascular Dementia patients and link to medical records
- Identify risk factors using ICD-9 and ICD-10 codes

## Results

**Percentage of Vascular Dementia Cases with Risk Factor Present**



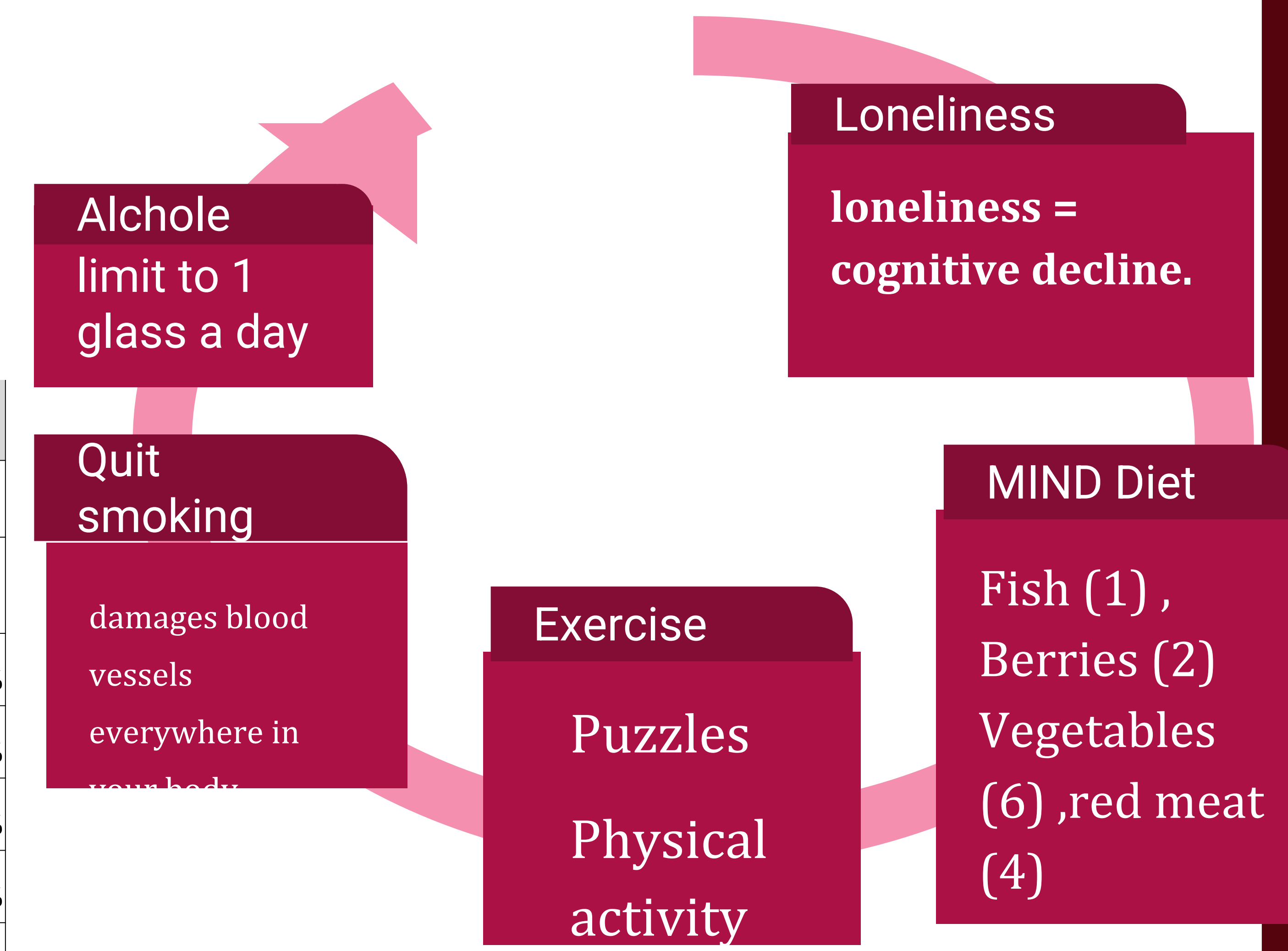
Vascular Dementia Risk Factor by Race and Gender												
RISK FACTOR	WHITE				AFRICAN-AMERICAN				OTHER RACE			
	FEMAL E	%	MALE	%	FEMAL E	%	MALE	%	FEMAL E	%	MALE	%
OBESITY	1,330	16.14%	826	13.63%	1,254	24.96%	480	11.97%	34	4.08%	12	1.94%
MYOCARDIAL INFARCTION	2,215	26.88%	2,342	38.64%	1,608	32.00%	1,260	31.41%	69	8.28%	45	7.29%
ATHEROSCLEROSIS	6,452	78.30%	5,243	86.50%	3,940	78.41%	3,110	77.54%	174	20.89%	133	21.56%
HIGH CHOLESTEROL	4,904	59.51%	3,934	64.91%	3,107	61.83%	2,385	59.46%	160	19.21%	107	17.34%
HIGH BLOOD PRESSURE	7,893	95.79%	5,719	94.36%	5,200	103.48%	3,934	98.08%	241	28.93%	158	25.61%
DIABETES	3,667	44.50%	3,063	50.54%	3,650	72.64%	2,479	61.81%	140	16.81%	102	16.53%
SMOKING	1,510	18.33%	1,760	29.04%	874	17.39%	1,478	36.85%	34	4.08%	40	6.48%
ATRIAL FIBRILLATION	3,404	41.31%	2,568	42.37%	1,511	30.07%	1,072	26.73%	88	10.56%	49	7.94%
STROKE	4,167	50.57%	3,122	51.51%	2,810	55.92%	2,249	56.07%	121	14.53%	88	14.26%

- African American Women are more at risk of having Vascular Dementia than African American Men, White men, and women. Moreover, African American women had the highest percentage of: Obesity, Myocardial Infarction, Atherosclerosis, High Cholesterol, High blood pressure, Diabetes, and Stroke

## Conclusion

- ❖ The most common risk factors for African Americans included:
  - High Blood Pressure
  - Atherosclerosis
  - Diabetes
  - High Cholesterol
  - Stroke

Prevention methods include:



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