



National Black
Church Initiative



Black Church
Clinical Trials

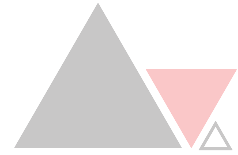


American Clinical Health
Disparities Commission

PARKINSON'S

Social Media Posts and Assets

Parkinson's Disease and African Americans |||||



PARKINSON'S DISEASE (PD) is the world's fastest growing progressive neurodegenerative brain disease. An estimated one million people in the U.S. are living with PD.



Parkinson's Disease and African-Americans

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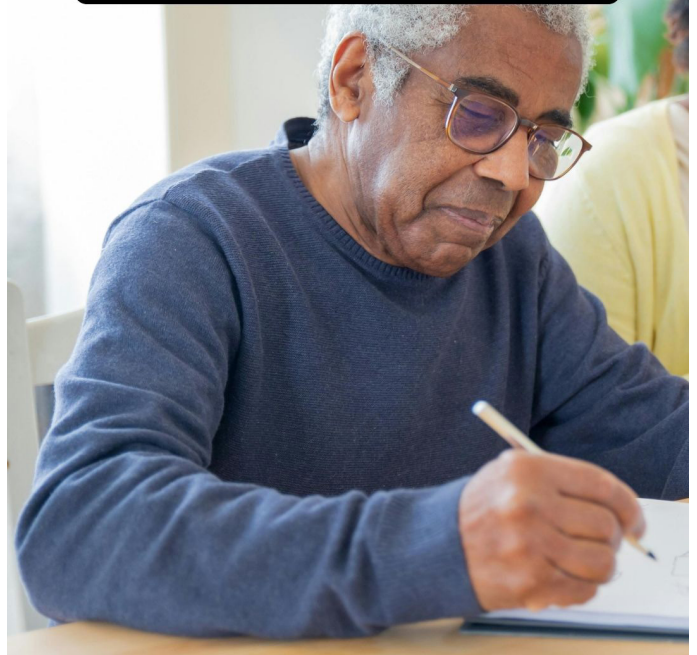
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Parkinson's Disease and African-Americans

What is Parkinson's Disease?

Parkinson's disease (PD) is a progressive movement disorder of the nervous system. It causes nerve cells (neurons) in parts of the brain to weaken, become damaged, and die. This leads to symptoms like movement problems, tremor, stiffness, and impaired balance. As symptoms progress, people with PD may have difficulty walking, talking, or completing simple tasks.



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The Black and African American Connections to Parkinson's Disease study is one of 220 studies in over 60 locations on six continents, recruiting at 11 US sites, including Houston and St. Louis





Parkinson's Disease and African-Americans

MJFF, the largest nonprofit funder of Parkinson's research, runs many programs to broaden our understanding of the disease. Notably, the Foundation supports the Global Parkinson's Genetics Program, a resource of the Aligning Science Across Parkinson's initiative. This program collects data and samples from more than 220 studies in over 60 locations on six continents to uncover more about the genetic drivers of Parkinson's disease.



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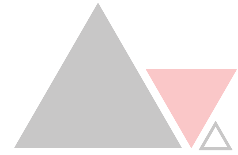


Parkinson's Disease and African-Americans

This program collects data and samples from more than 220 studies in over 60 locations on six continents to uncover more about genetic drivers of Parkinson's disease. The Black and African American Connections to Parkinson's Disease study is one contributing study. It is recruiting at 11 U.S. sites, including Houston and St. Louis.



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African Americans are 1/2 as likely to be diagnosed with PD as their White counterparts. When diagnosed, they are often at a later stage in their disease.



Parkinson's Disease and African-Americans

African Americans and Parkinson's Disease
Currently, about one million people in the US have Parkinson's disease (PD). The prevalence of PD in the Black and African American community is not exactly known. This is partly due to the limited inclusion of Black and African American people in research studies. Approximately 6% of all PD clinical trial participants are "non-White".



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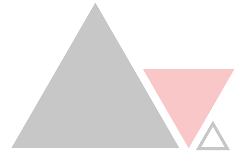


Parkinson's Disease and African-Americans

African Americans and Parkinson's Disease
African Americans are about half as likely to be diagnosed with PD as their White counterparts. When diagnosed, they are often at a later stage in their disease than their White counterparts. Appropriate and representative participation in research will improve understanding of how PD impacts the Black and African American community.



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Although the cause of most Parkinson's Disease cases is unknown, researchers believe multiple factors cause it. The greatest risk factor for PD is aging.



Parkinson's Disease and African-Americans

Who is at risk for Parkinson's Disease?

Although the cause of most Parkinson's disease cases is unknown, researchers believe multiple factors cause it. Some of these risk factors include:

Aging. The greatest risk factor for PD is aging, and researchers expect the number of people with PD to double by 2040 due to an aging population.



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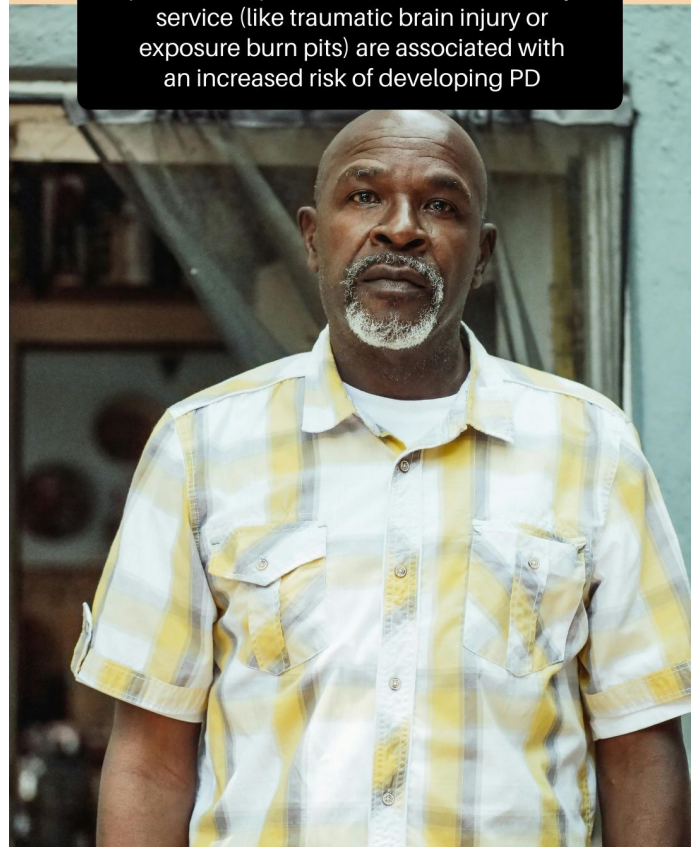
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Parkinson's Disease and African-Americans

Who is at risk for Parkinson's Disease?

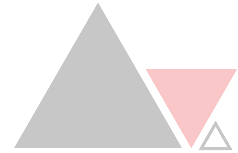
Environment. Factors like head injury, pesticide exposure or stressors of military service (like traumatic brain injury or exposure burn pits) are associated with an increased risk of developing PD



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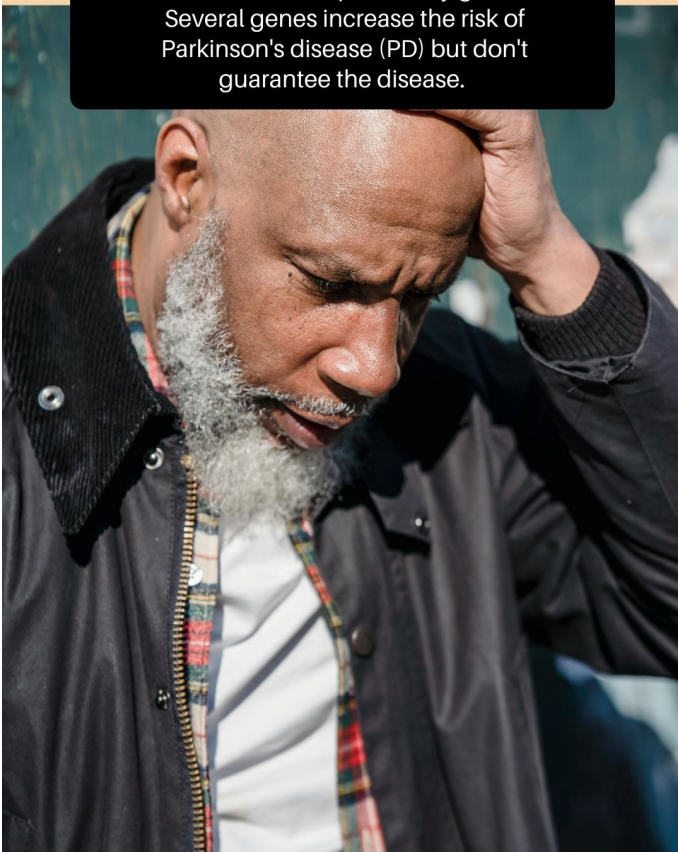
African Americans with neurological diagnoses are less likely to see neurologists. Newly diagnosed African Americans with PD are less likely to receive physical therapy.



Parkinson's Disease and African-Americans

Who is at risk for Parkinson's Disease?

Genetics. Researchers estimate about 30% of PD risk is explained by genetics. Several genes increase the risk of Parkinson's disease (PD) but don't guarantee the disease.



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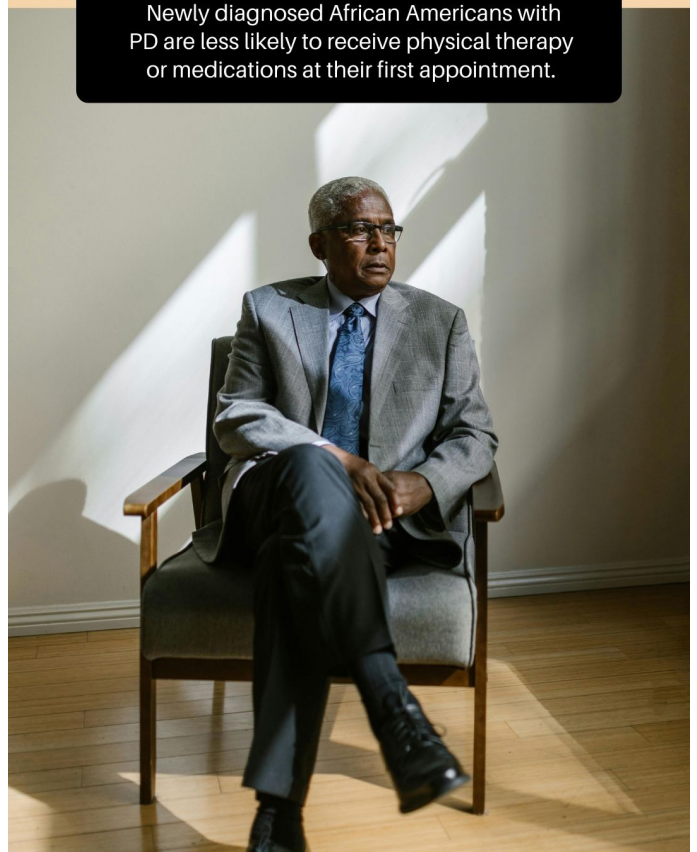
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Parkinson's Disease and African-Americans

Disparities in Parkinson's Disease

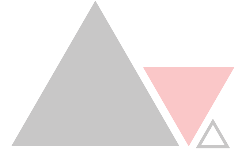
African Americans with neurological diagnoses are less likely to see neurologists. Newly diagnosed African Americans with PD are less likely to receive physical therapy or medications at their first appointment.



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African Americans with Parkinson's Disease have higher rates of dementia diagnosis and lower rates of survival



Parkinson's Disease and African-Americans

Disparities in Parkinson's Disease

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Parkinson's Disease and African-Americans

Disparities in Parkinson's Disease

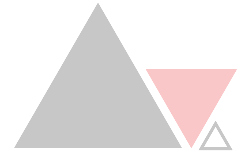
African Americans are less likely to receive deep brain stimulation



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African Americans with neurological diagnoses are less likely to see neurologists and are less likely to receive deep brain stimulation.



⋮ Parkinson's Disease and African-Americans ⋮

Parkinson's research advocate Richard Huckabee, age 65, shared his story with the leading scientific outlet STAT about the challenges he faced in his nearly decade-long journey to receive a diagnosis and access care. As a Black man, Richard experienced ongoing disparities when, alongside his wife Angela, they sought answers from multiple physicians: "We don't fit the profile. Some of the doctors said I'm taking it too seriously. Some of them said, 'There's nothing wrong with you.'"



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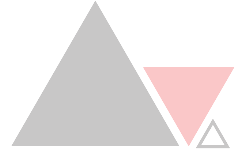


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Parkinson's Disease and African-Americans

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Parkinson's Disease and African-Americans

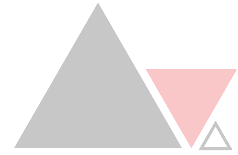
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Symptoms of Parkinson's Disease (PD)

Stillness, or rigidity - where someone may experience muscle stiffness.



Parkinson's Disease and African-Americans

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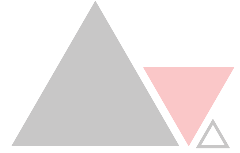
Parkinson's Disease and African-Americans

Symptoms of Parkinson's Disease (PD)

Stiffness, or rigidity - where someone may experience muscle stiffness



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Symptoms of Parkinson's Disease (PD)

Slowness or *bradykinesia* - This could look like slower walking, less arm swinging while walking or decreased blinking or facial expressions.



Parkinson's Disease and African-Americans

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Parkinson's Disease and African-Americans

Symptoms of Parkinson's Disease (PD)

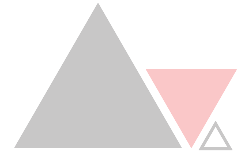
Slowness, or bradykinesia - where someone may experience decreased spontaneous and voluntary movement. This could look like slower walking, less arm swinging while walking, or decreased blinking or facial expressions



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Symptoms of Parkinson's Disease (PD)

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Parkinson's Disease and African-Americans

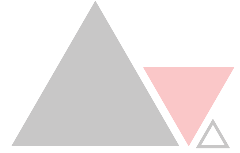
Symptoms of Parkinson's Disease (PD)

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Parkinson's Disease and African-Americans

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Parkinson's Disease and African-Americans

Symptoms of Parkinson's Disease (PD)

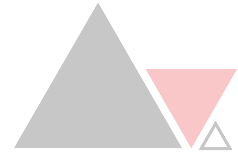
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Symptoms of Parkinson's Disease (PD)

Resting tremor - where someone may experience a rhythmic, involuntary shaking that occurs when relaxed and disappears during voluntary movement



Parkinson's Disease and African-Americans

Symptoms of Parkinson's Disease (PD)

Resting tremor - where someone may experience a rhythmic, involuntary shaking that occurs in a finger, hand or limb when relaxed and disappears during voluntary movement.



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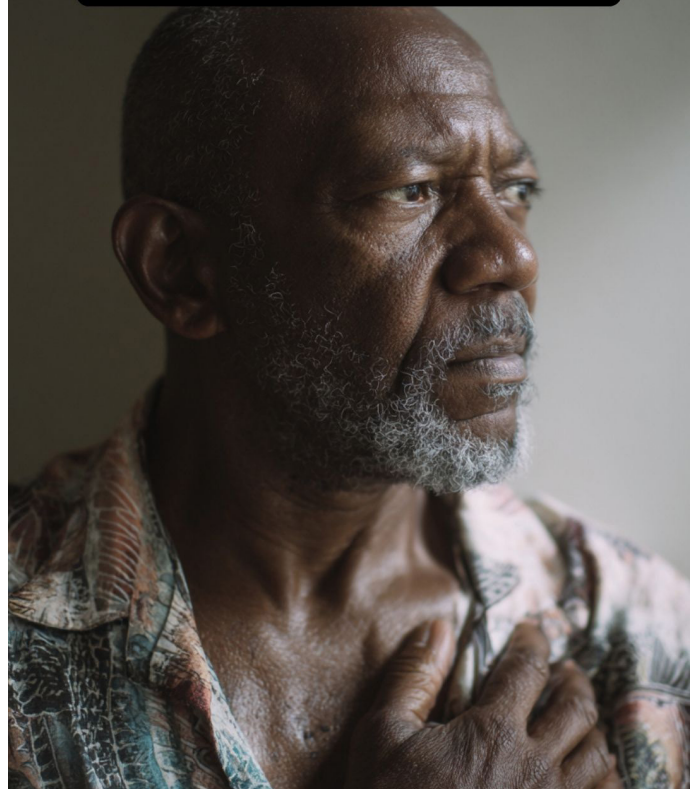
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Parkinson's Disease and African-Americans

Symptoms of Parkinson's Disease (PD)

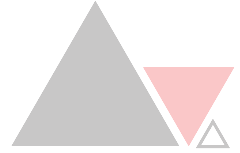
Other symptoms are non-motor symptoms, sometimes called the "invisible" symptoms of PD



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Symptoms of Parkinson's Disease (PD)

- Constipation
- Low blood pressure



Parkinson's Disease and African-Americans

Symptoms of Parkinson's Disease (PD)

Constipation



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Parkinson's Disease and African-Americans

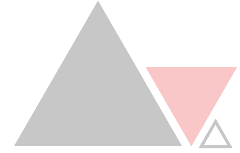
Symptoms of Parkinson's Disease (PD)

Low blood pressure



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Symptoms of Parkinson's Disease (PD)

- Sexual, sweating and urine problems
- Mood and thinking changes



Parkinson's Disease and African-Americans

Symptoms of Parkinson's Disease (PD)
Sexual, sweating, and urine problems

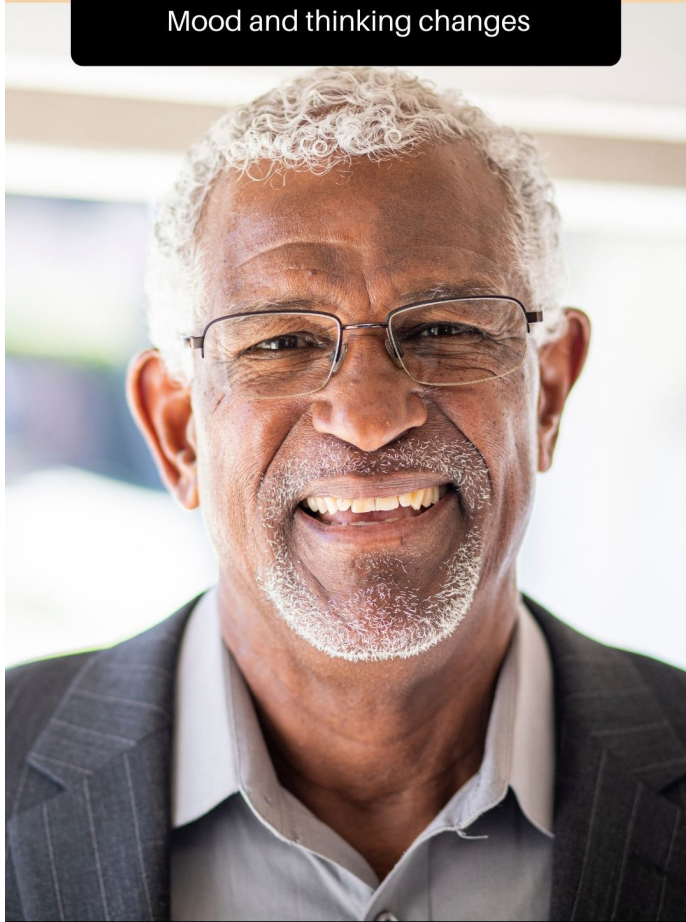


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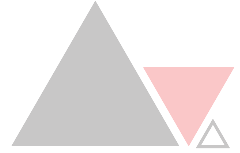


Parkinson's Disease and African-Americans

Symptoms of Parkinson's Disease (PD)
Mood and thinking changes



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Symptoms of Parkinson's Disease (PD)

- **Apathy (lack of interest)**
- **Cognitive (memory or thinking) problems**



Parkinson's Disease and African-Americans

Symptoms of Parkinson's disease (PD).

Apathy (lack of interest)





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Parkinson's Disease and African-Americans

Symptoms of Parkinson's disease (PD).

Cognitive (memory or thinking) problems



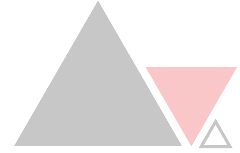


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Symptoms of Parkinson's Disease (PD)

- Mood disturbances
- Hallucinations and delusions



Parkinson's Disease and African-Americans

Symptoms of Parkinson's disease (PD).

Mood disturbances



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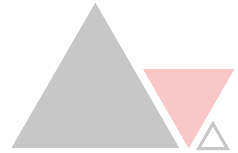
Parkinson's Disease and African-Americans

Symptoms of Parkinson's disease (PD).

Hallucinations and delusions

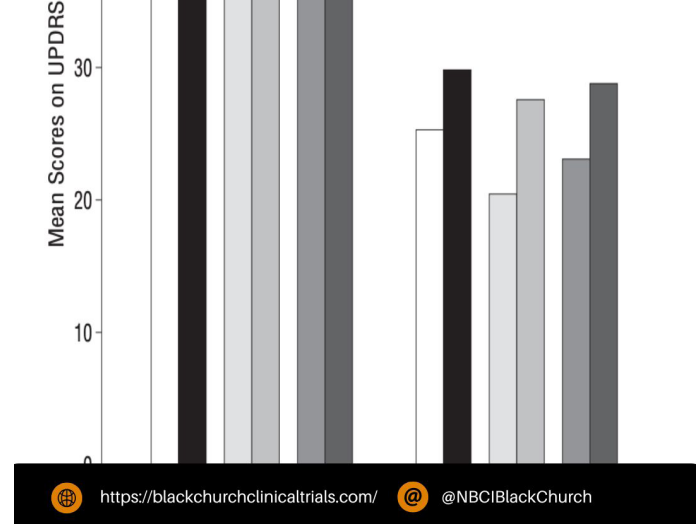
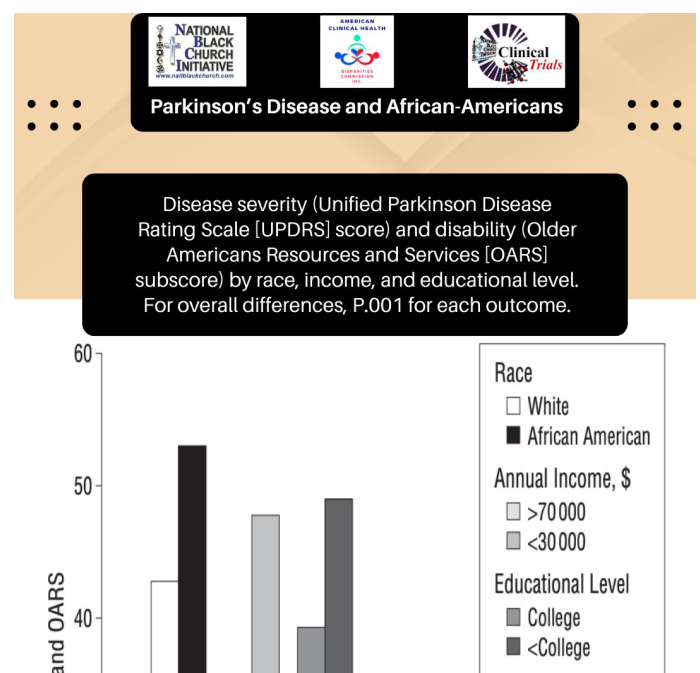
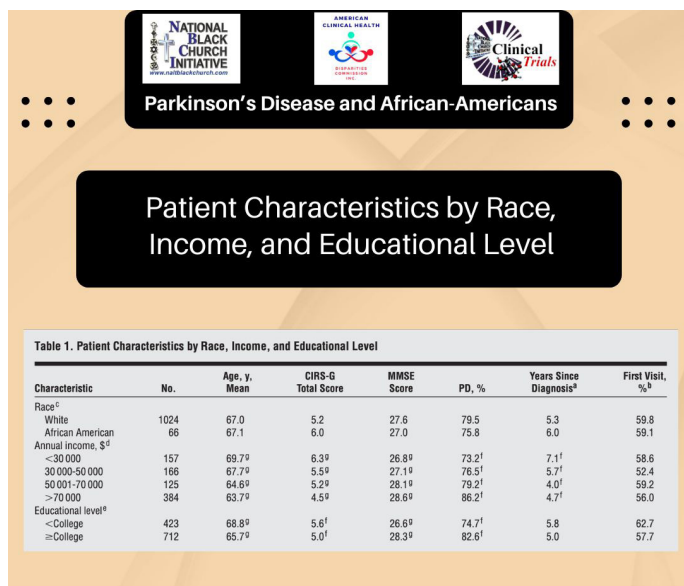


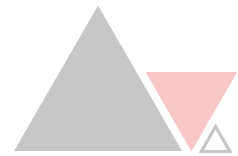
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• Patient Characteristics by race, income and educational level

• Disease severity by race, income and educational level





- **Disability and disease severity of patients grouped by race, income and educational level**
- **Adjusted means by race, income and educational level after controlling for the other two variables**





Parkinson's Disease and African-Americans

Disability and Disease Severity of Patients Grouped by Race, Income, and Educational Level

Table 2. Disability and Disease Severity of Patients Grouped by Race, Income, and Educational Level^a

Characteristic	No.	OARS Total Score	OARS ADL Score	OARS IADL Score	UPDRS Motor Score	UPDRS Total Score
Race						
White	1024	25.3	12.2	13.3	27.9	42.8
African American	66	29.8 ^c	14.3 ^c	15.8 ^b	35.1 ^d	53.0 ^d
Annual income, \$						
<30 000	157	29.9 ^d	14.0 ^d	16.2 ^d	32.9 ^d	50.4 ^d
30 000-50 000	166	27.6	13.1	14.7	31.2	47.8
50 001-70 000	125	23.6	11.5	12.3	25.4	39.0
>70 000	384	20.5	10.3	10.5	23.7	35.6
Educational level						
<College	423	28.8 ^d	13.6 ^d	15.5 ^d	31.9 ^d	49.0 ^d
≥College	712	23.1	11.3	12.0	25.7	39.3



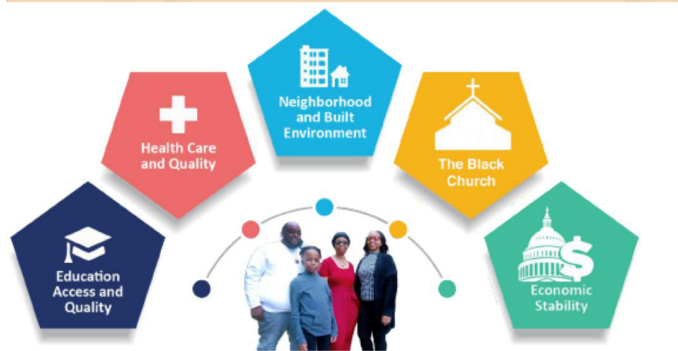


Parkinson's Disease and African-Americans

Adjusted Means by Race, Income, and Educational Level After Controlling for the Other 2 Variables

Table 3. Adjusted Means by Race, Income, and Educational Level After Controlling for the Other 2 Variables^a

Characteristic	No.	OARS Total Score (n=778)	OARS ADL Score (n=773)	OARS IADL Score (n=772)	UPDRS Motor Score (n=778)	UPDRS Total Score (n=778)
Race (controlling for income and educational level)						
White	734	25.4	12.2	13.5	28.5	43.4
African American	44	28.9	13.8	15.3	31.8	48.2
P value for race		.05	.046	.08	.09	.11
Annual income, \$ (controlling for race and educational level)						
<30 000	147	30.5	14.4	16.4	33.6	51.3
30 000-50 000	155	28.8	13.6	15.3	32.3	49.4
50 001-70 000	116	26.1	12.6	13.7	28.3	42.8
>70 000	360	23.2	11.5	12.0	26.4	39.5
P value for income		<.001	<.001	<.001	<.001	<.001
Educational level (controlling for race and income)						
<College	266	28.7	13.7	15.2	32.0	48.5
≥College	512	25.6	12.3	13.5	28.2	43.0
P value for educational level		.002	.002	.002	<.001	.001






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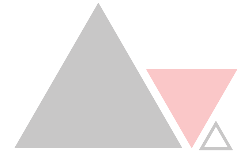
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Medications by race, educational level and income chart showing disparities of Parkinson's disease medicine

