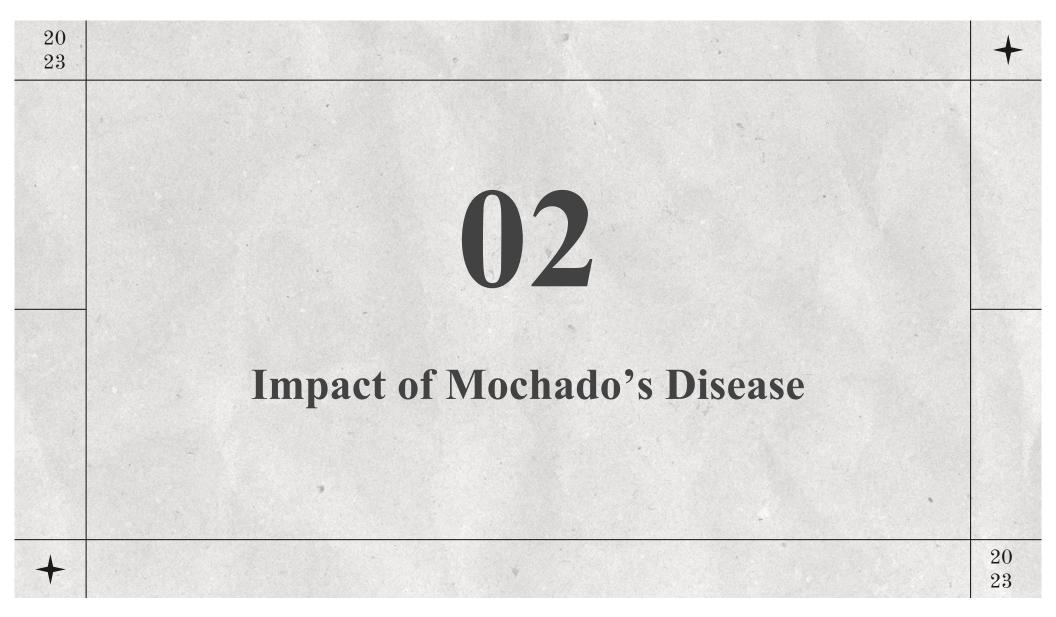




- In 2043, the world has been struck with a neurodegenerative condition called Mochado's Disease that has plagued hundreds of thousands of individuals. Mochado's Disease primarily affects children of younger ages. The disease is so deadly that it can result in death if intervention is not met. Mochado's Disease is comparable with Parkinson's, Alzheimer's, and Lewy Body Dementia. However, because the symptoms for Mochado's disease impact children, the lifespan of humans continue to decrease.
- The onset of Mochado's Disease has led to a significant shift in global health priorities, with a major focus on understanding the causes and developing effective treatments for the disease. Researchers and healthcare professionals around the world have been working tirelessly to unravel the complex nature of Mochado's Disease and develop new interventions that can halt or even reverse its progression.
- One of the key challenges in addressing Mochado's Disease is the fact that it affects young children, who may not be able to articulate their symptoms or communicate effectively about their condition. This has led to the development of new diagnostic tools and techniques that can help identify the disease in its earliest stages, when interventions are most effective.
- Despite these efforts, Mochado's Disease continues to pose a significant threat to global health, particularly in regions with limited access to healthcare and resources. The disease has highlighted the need for greater investment in healthcare infrastructure and research, as well as the importance of global collaboration in tackling complex health challenges.





The Four Stages

Neurologists have organized Mochado's Disease into four distinct stages: mild, moderate, severe and extremely severe.

01

Mild

Early symptoms of Parkinson's Disease. It usually only affects one side of the body. 02

Moderate

Begins to affect both sides of the body.

Posture and coordination are impacted due to the development of Alzheimer's.

03

Severe

Assistance required to stand and walk. There is increased impairment in memory, disorientation and confusion. 04

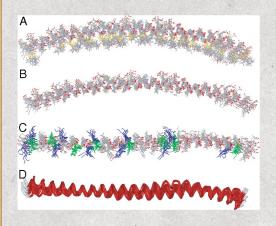
Extremely Severe

The loss of speech and awareness of surroundings. Patient may be bed bound or rely on a wheelchair.

Can last for several years before progressing



Alpha-Synuclein Structure

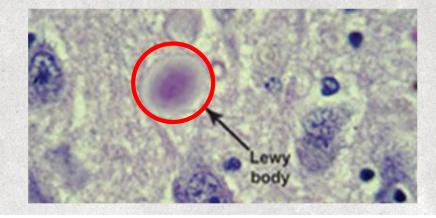


Alpha-synuclein is a small protein composed of **140 amino acids**. It is primarily found in the brain, particularly in regions involved in regulating movement and cognition. The structure of alpha-synuclein is characterized by its ability to adopt different conformations, including a monomeric **unfolded state**, an alpha-helical structure, and a beta-sheet **structure**.

Excess alpha-synuclein can have **negative effects** on **brain function**. In normal physiological conditions, alpha-synuclein is involved in regulating the release of neurotransmitters, which are critical for communication between nerve cells.

What are Lewy Bodies?

Lewy bodies are abnormal deposits of alpha-synuclein protein that accumulate in the brain cells of individuals with certain neurodegenerative disorders, including Parkinson's disease, dementia with Lewy bodies and Mochado's Disease. These protein clumps can lead to the progressive deterioration of brain function.





Disease-Causing Mutation



Parkinson's Disease

Parkinson's disease is a neurodegenerative disorder characterized by progressive motor symptoms such as tremors, rigidity, and slowness of movement, as well as non-motor symptoms such as **cognitive impairment** and mood changes, which are caused by the **degeneration of** dopamine-producing **cells** in the brain.

Alzheimer's disease is a degenerative brain disorder that causes progressive memory loss, cognitive decline, and changes in behavior and personality, ultimately leading to severe impairment of daily functioning.

Alzheimer's





What is Alzheimer's?

Alzheimer's disease is a neurodegenerative disorder characterized by the progressive and irreversible loss of brain cells, leading to memory loss, cognitive decline, and changes in behavior and personality. It is the most common cause of dementia, a basic term for a decline in cognitive ability severe enough to interfere with daily life. Alzheimer's disease is believed to be caused by a combination of genetic, environmental, and lifestyle factors, and currently has no cure. Alzheimer's disease is a progressive and debilitating neurodegenerative disorder that has a significant impact on the world, including emotional and financial burdens on families and caregivers, substantial economic costs, and societal challenges for healthcare systems, the workforce, and communities.

- **Memory loss:** Difficulty remembering recent events, names, or important information.
- Language problems: Difficulty finding the right words to express thoughts or join in a conversation.
- **Disorientation:** Confusion about time, place, or date. This may result in getting lost in familiar locations or forgetting the time or day.
- Changes in personality or behavior: Mood swings, increased irritability, agitation, anxiety, or depression.
- **Difficulty with familiar tasks:** Difficulty completing routine tasks such as managing finances, preparing meals, or remembering familiar routes.



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	Prevention and Treat	ment of Alzheimer's	
	Prevention	Treatment	
	Some ways to manage and prevent Alzheimer's: (1) Prevent high blood pressure. (2) Quit smoking and alcohol or drug use. (3) Maintain a healthy weight and be active. (4) Get enough sleep, which also includes keeping high stress levels at bay.	No cure exists, but symptoms of Alzheimer's can be managed using some methods: (1) medications for cognition-enhancing (2) self-care through exercise, proper sleep, and diet (3) participate in opportunities and activities that would help improve mental condition and balance mood.	
+			20 23

What is Parkinson's?

Parkinson's disease, also known as Parkinson's, is a degenerative neurological disorder that affects movement control. Parkinson's disease is characterized by a loss of dopamine-producing cells in the brain, which results in a range of motor and non-motor symptoms. The exact cause of Parkinson's disease is still unknown, although both genetic and environmental factors are believed to play a role. There is currently no cure for Parkinson's disease, but there are medications and other therapies available that can help manage the symptoms and improve the quality of life for people living with Parkinson's. Treatment approaches may include medications to replenish dopamine levels, physical therapy, occupational therapy, speech therapy, and in some cases, surgical interventions such as deep brain stimulation.

- Tremors: They are one of the first noticeable symptoms of Parkinson's disease. They are typically characterized by a rhythmic, involuntary shaking of the limbs.
- **Bradykinesia:** Bradykinesia refers to slowness of movement. It may manifest as difficulty initiating movement.
- Autonomic dysfunction: Parkinson's disease can affect the autonomic nervous system, leading to symptoms such as a drop in blood pressure upon standing and urinary problems.
- Speech and swallowing difficulties:

 Parkinson's disease can cause speech and swallowing difficulties, including soft or slurred speech and difficulty articulating words.



Pi	revention of Parkinson's
	f now, there is no cure for Parkinson's disease. Nonetheless, here are various treatments and interventions available
that c	can help manage its symptoms and improve quality of life for individuals with Parkinson's.
1.	Medications: There are several types of medications that can be used to manage the motor symptoms of Parkinson's, such as levodopa, dopamine agonists, MAO-B inhibitors, and others.
2.	Physical therapy: Physical therapy, including exercises to improve mobility, strength, and balance, can be beneficial for individuals with Parkinson's. Physical therapy can help manage motor symptoms, improve posture, and enhance overall physical functioning.
3.	Occupational therapy: Occupational therapy can help individuals with Parkinson's improve their ability to perform daily activities, such as dressing, bathing, and eating.
4.	Speech and language therapy: Speech and language therapy can be helpful for managing speech and swallowing difficulties that may occur in Parkinson's disease. Speech therapists can provide exercises and techniques to improve speech clarity, voice volume, and swallowing function.
5.	Deep brain stimulation (DBS): DBS is a surgical procedure that involves implanting electrodes in specific areas of the brain and using a stimulator to deliver electrical impulses. DBS can help manage motor symptoms in individuals with Parkinson's who are not responding well to medication.

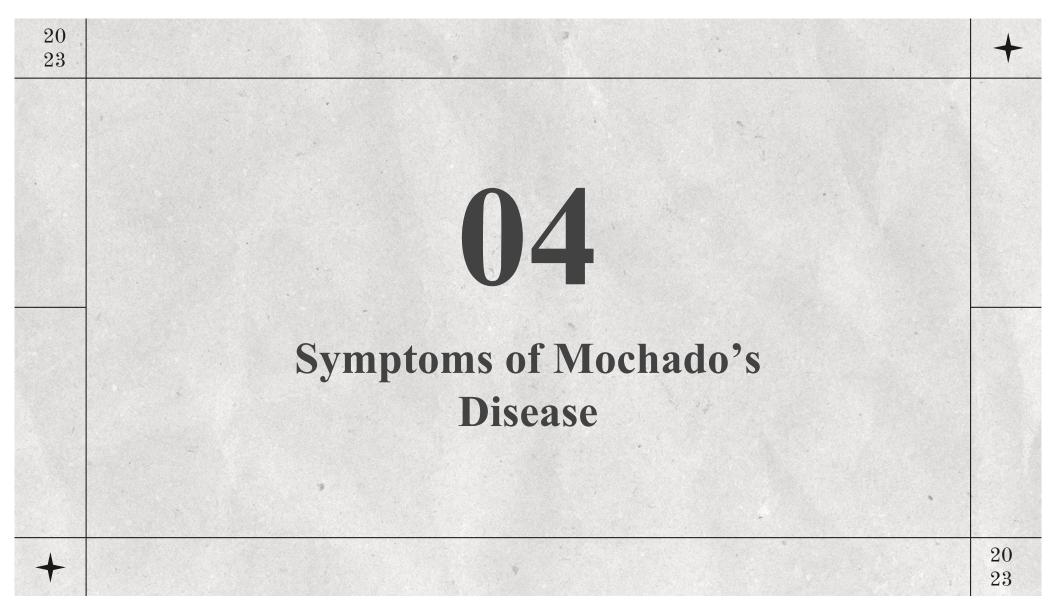
About Lewy Body Dementia

Lewy body dementia (LBD) is a progressive neurological disorder that affects thinking, behavior, and mood. It is characterized by the presence of abnormal protein deposits called Lewy bodies in the brain, which disrupt normal brain function. LBD is the third most common cause of dementia after Alzheimer's disease and vascular dementia. Research suggests that genetic and environmental factors may play a role in its development. Lewy bodies, which are abnormal protein aggregates, accumulate in certain areas of the brain and disrupt the normal functioning of brain cells, leading to a decline in cognitive function and other symptoms. Diagnosis of Lewy body dementia can be challenging due to its overlapping symptoms with other types of dementia and the fluctuating nature of cognitive and motor symptoms.

- Cognitive decline: LBD can cause problems with thinking, memory, attention, problem-solving, and planning. Memory loss, difficulty with problem-solving, and impaired executive function are common cognitive symptoms of LBD.
- Visual hallucinations: Visual hallucinations are a characteristic feature of LBD and can be vivid and detailed visual perceptions that are not based in reality.
- Motor symptoms: LBD may cause parkinsonism, which includes motor symptoms similar to those seen in Parkinson's disease. Motor symptoms in LBD can impact a person's mobility, balance, and ability to perform daily activities.
- Fluctuating attention and alertness: People with LBD may have periods of clarity and alertness followed by sudden episodes of confusion or drowsiness.



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	Prevention of Lewy Body Dementia	
	There is currently no cure for Lewy body dementia (LBD). However, there are some strategies that may help manage its symptoms and improve the quality of life for individuals with LBD.	
	1. Medications: Medications can be used to manage various symptoms of LBD, such as cognitive decline, visual hallucinations, motor symptoms, and mood changes. Cholinesterase inhibitors, which are also used in the treatment of Alzheimer's disease, may be prescribed to help manage cognitive symptoms in LBD.	
	1. Supportive care: Supportive care, including counseling, support groups, and education, can be beneficial for individuals with LBD and their caregivers.	
	1. Environmental modifications: Making changes to the home environment to minimize fall risks, removing tripping hazards, and ensuring adequate lighting.	
	Cognitive interventions: These interventions can include activities such as memory games, puzzles, and other cognitive exercises that may help maintain cognitive function and engagement.	
	1. Physical therapy: Physical therapy, including exercises to improve mobility, strength, and balance, can be helpful in managing motor symptoms and maintaining physical function in individuals with LBD.	
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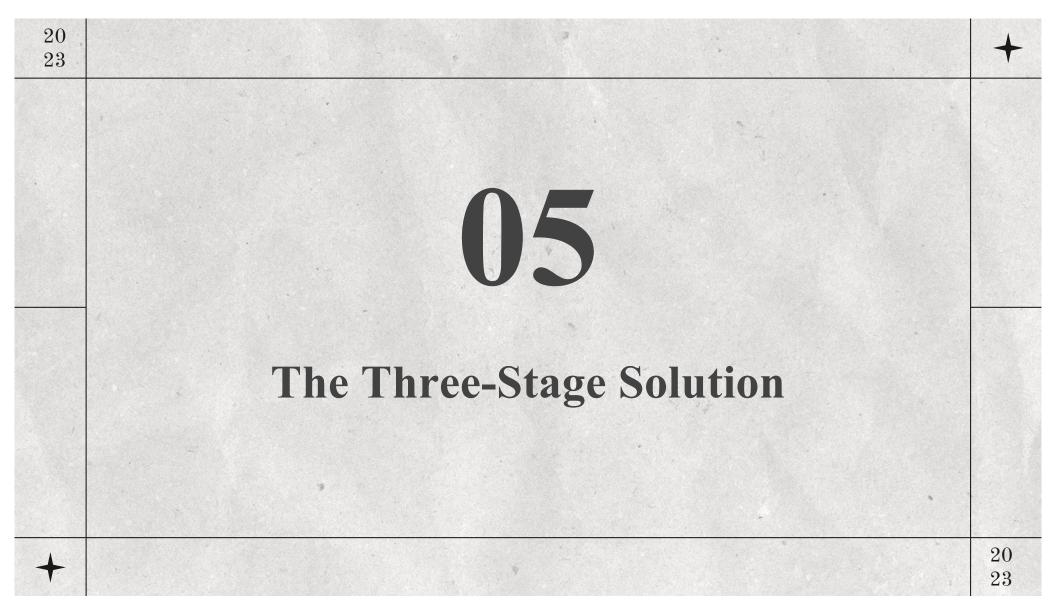


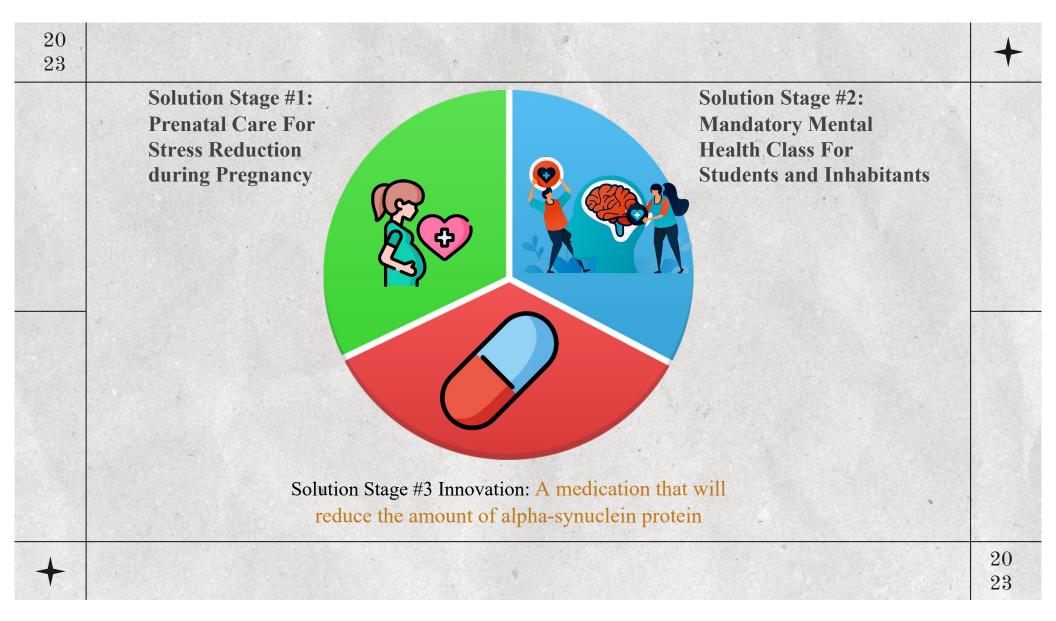






- Inability to make proper choices, i.e. resulting in neglection of health, poor hygiene, and poor choice of diet and lifestyle choices.
- 2 Changes in personality, mood, sensory details, and ability to mentally function.
- Problems in motor recognition, such as slow movement, inability to form words/communicate, and hand-eye coordination.
- Extreme eye strain, lack of physical abilities, and dull accuracy and reflexes.





Solution #2: Mandatory Mental Health Class For Students and Inhabitants



Overview

By providing mental health classes to everyone in the US, we increase awareness of the impact of stress on health, including its potential impact on neurodegenerative diseases. This can help individuals identify and manage their stress levels, which in turn can help reduce the risk of developing neurodegenerative diseases. Additionally, mental health classes can also provide education and support for families with a history of neurodegenerative diseases, including genetic counseling and resources for managing the disease. This can help individuals understand their risk and take proactive steps to reduce the likelihood of developing the disease. By reducing stress levels in pregnant women, we may be able to reduce the risk of mental disorders in children. Mental health classes can provide strategies for managing stress during pregnancy, and public health programs can provide support and resources for pregnant women to help them manage their stress levels. This can ultimately lead to better health outcomes for both the mother and the child.

Mental Health Class Specifics

- Increased awareness and education: Mental health classes reduces the stigma surrounding mental health issues, and encourage individuals to seek help if they are struggling with Mochado's Disease.
- Improved coping skills: Mental health skills could help individuals to better manage their symptoms, and reduce the risk of developing more serious mental health conditions.
- Enhanced support networks: Mental health classes could help to build supportive networks and reduce feelings of isolation and loneliness.
- Improved productivity and performance:

 Mental health classes could improve productivity and performance in various settings, such as the workplace or school.
- **Trauma reduction methods:** Can decrease PTSD, which can increase rates of dementia.



*Mental health classes for students in school will be provided during the lunch period by several instructors. Mental health classes for soon-to-be parents will be provided via Zoom calls once every week.

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23



Solution 3: Anti-Alpha Synuclein Medication

Overview

Researchers are actively exploring the development of Anti-Alpha Synuclein drugs. In recent years, several companies have been working on developing anti-alpha synuclein antibodies, which are designed to clear alpha-synuclein quantities from the brain. Alpha-synuclein is a protein that is found in the brain, and it is believed to play a role in the development of neurodegenerative disorders such as Parkinson's disease. In people with Parkinson's disease, alpha-synuclein accumulates in the brain, leading to the formation of Lewy bodies, which are clumps of protein that can damage brain cells. Drug therapies could also be developed that target alphasynuclein accumulation in the brain. Researchers could investigate compounds that have shown promise in animal studies, such as curcumin, which is a compound found in turmeric. Curcumin has been shown to reduce the accumulation of alphasynuclein in animal models of Parkinson's disease, and further research could help to determine its potential as a treatment for humans.

Different Medications

- Curcumin is a naturally occurring compound found in turmeric. It has been studied extensively for its potential health benefits and has been shown to have anti-inflammatory, antioxidant, and neuroprotective properties.
- Studies have demonstrated that curcumin can reduce the accumulation of alpha-synuclein protein in animal models of Parkinson's disease. A pill with a 2500 mg dose of curcumin per day will be sufficient.
- One drug is called **PRX002**, which is being developed by the pharmaceutical company Roche. PRX002 is an antibody that targets and **neutralizes alpha-synuclein**. The drug is currently in Phase 2 clinical trials, and researchers are hopeful that it could become a new treatment option for Parkinson's disease.
- Another drug that has shown promise in preclinical studies is called Anle138b. Anle138b is a molecule compound that has been shown to reduce alpha-synuclein aggregation in the brain. In animal studies, Anle138b has been shown to improve motor function and reduce neurodegeneration in models of Parkinson's disease. However, more research is needed to determine its safety and efficacy in humans.
- All of these medications can be improved upon and the power curcumin dose can be sold and given prescriptions for extensively.



Social Guidelines

- 1. Cultural sensitivity: Different cultures may have different beliefs and practices related to pregnancy and mental health. It's important to be sensitive to these differences and ensure that programs and resources are culturally appropriate and accessible.
- 2. Accessibility: It's important to ensure that programs and resources are accessible to all pregnant women, regardless of their socio-economic status, race, ethnicity, or geographic location. This may require targeted outreach efforts to underserved communities.
- 3. Privacy and confidentiality: Pregnant women may be hesitant to seek help if they feel that their privacy and confidentiality will not be respected. It's important to ensure that all programs and services prioritize privacy and confidentiality, and to communicate this clearly to participants.
- **4. Empowerment:** Pregnant women should be empowered to make informed decisions about their own health and the health of their child. This means providing them with accurate and reliable information, and involving them in the design and implementation of programs and services.
- **5. Moderation**: Ensuring that all curcumin doses are the correct amount of miligrams for each age group or progression of Mochado's disease.
- **6. Professionalism**: Ensuring that teachers know how to teach about mental health.
- 7. Efficiency: Ensuring that people are able to quickly receive medication

Clinical Trials and Benchmarks

Clinical Trials and Sample Size

- 1. Study design: Clinical trials should be designed to test the safety and efficacy of the medication in humans.
- 2. Dosage: The dosage of the medication should be carefully selected based on preclinical studies and early-phase clinical trials. The dosage should be adjusted based on the safety and efficacy data collected during the trial.
- 3. Patient population: The patient population should be carefully selected to ensure that they meet the inclusion and exclusion criteria for the study. Patients with early-stage Parkinson's disease or those at high risk of developing the disease may be good candidates for the study.
- 4. Safety monitoring: Safety monitoring should be conducted throughout the trial to identify and manage any adverse events associated with the medication. The safety monitoring plan should be based on the results of preclinical studies and early-phase clinical trials.
- 5. Efficacy endpoints: The efficacy endpoints should be carefully selected based on the primary goal of the trial. These endpoints may include changes in motor function, quality of life, or disease progression.
- 6. Follow-up: Patients should be followed up after the trial to evaluate the long-term safety and efficacy of the medication.
- 7. Sample Size: Should be 5000 individuals chosen at random, who consent.

Benchmarks

Safety: The safety of the drug should be carefully assessed to ensure that it does not cause harm to patients. Adverse events should be monitored and reported, and any serious safety concerns should be thoroughly investigated.

Efficacy: The efficacy of the drug should be evaluated to determine whether it is effective in reducing alpha-synuclein accumulation and improving symptoms in patients with neurodegenerative disorders.

Dose-response relationship: The dose-response relationship of the drug should be evaluated to determine the optimal dose for achieving therapeutic effects while minimizing side effects.

Pharmacokinetics: The pharmacokinetics of the drug should be evaluated to determine how it is absorbed, distributed, metabolized, and eliminated in the body.

Comparison to standard of care: The drug should be compared to the standard of care treatment to determine whether it provides additional benefits or is more effective than existing treatments.

Long-term effects: The long-term effects of the drug should be evaluated to determine its safety and efficacy over extended periods of use.

Cost-effectiveness: The cost-effectiveness of the drug should be evaluated to determine whether it provides value for money compared to other treatments.

Prenatal Care Standard

An example of an epidemic where prenatal care was essential is the Zika virus outbreak that occurred in Brazil and other parts of South and Central America in 2015-2016. The Zika virus is a mosquito-borne virus that can cause microcephaly and other birth defects in babies born to mothers infected with the virus during pregnancy. The outbreak caused widespread concern among pregnant women and health officials, as there was no vaccine or cure for the virus.

During the outbreak, prenatal care became essential in preventing the transmission of the virus from mother to child. Prenatal care providers played a critical role in educating pregnant women about the risks of Zika virus infection and in providing support to women who were infected. Prenatal care providers also conducted regular ultrasounds to monitor fetal development and detect any signs of microcephaly or other birth defects.

In addition, public health officials implemented measures to control the spread of the virus, such as mosquito control programs and public education campaigns. These efforts helped to reduce the incidence of Zika virus infection and its associated birth defects.

Overall, the Zika virus outbreak highlights the importance of prenatal care in preventing and managing epidemics that affect pregnant women and their unborn children. By providing access to prenatal care and education, we can help to reduce the incidence of infectious diseases and their associated birth defects.

Quantitative Data and Physiological Effects

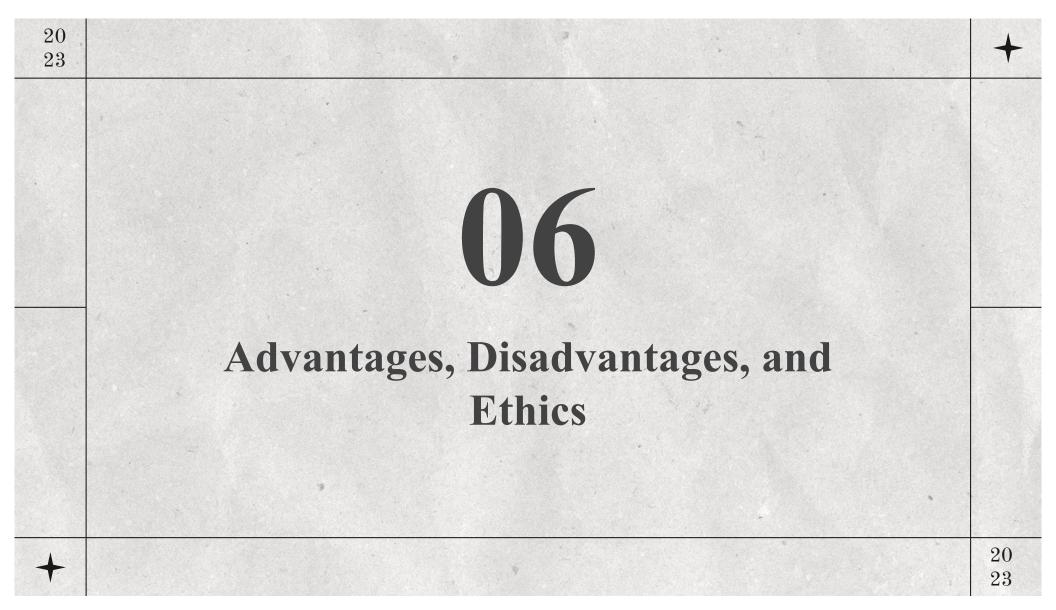
When testing drugs like PRX002 or Anle138b, researchers would want to collect quantitative data on various factors, such as the drug's safety, efficacy, pharmacokinetics, and pharmacodynamics. They would want to determine the optimal dosage of the drug, the time it takes to reach peak levels in the body, and the duration of the drug's effects. Additionally, they would want to examine the drug's potential side effects and adverse reactions.

In terms of physiological effects, researchers would likely examine various biomarkers of disease progression, such as the accumulation of alpha-synuclein protein in the brain, changes in dopamine levels, and alterations in motor function. They would also look for changes in other biological processes that may be affected by the drug, such as inflammation and oxidative stress

If the testing involves animals, researchers may also examine the effects of the drug on the animals' behavior, such as their ability to perform motor tasks, their cognitive function, and their overall health and well-being. If the testing involves human subjects, researchers would want to closely monitor the subjects' health and well-being, including any adverse reactions or side effects that may occur. Additionally, they would likely use imaging techniques, such as MRI or PET scans, to examine changes in brain structure and function before and after treatment with the drug.



- Education campaigns to raise awareness about the importance of prenatal care and stress management during pregnancy: These campaigns can be targeted towards women of reproductive age, healthcare providers, and families with a history of neurodegenerative disorders. They can include information about the potential risks associated with stress during pregnancy, as well as strategies for managing stress.
- Increasing access to mental health resources and support systems: Governments and public health organizations can provide resources and funding for mental health services, such as counseling or therapy, particularly for pregnant women who are at high risk for neurodegenerative disorders. Support systems, such as peer support groups, can also be effective in reducing stress levels and providing a sense of community.
- Developing and promoting anti-alpha synuclein drugs: Pharmaceutical companies can continue to develop drugs that target alpha-synuclein accumulation in the brain, such as PRX002 and Anle138b. Government funding and support can also be provided for research into natural compounds, such as curcumin, that have shown promise in reducing alpha-synuclein accumulation in animal studies.
- Implementing policies and regulations to ensure access to affordable healthcare and medication: Access to healthcare and medication is crucial for individuals with neurodegenerative disorders. Governments can implement policies and regulations to ensure that individuals have access to affordable healthcare and medication, regardless of their income or insurance status. This can include expanding Medicaid coverage, implementing price controls for medications, and increasing funding for research into new treatments and therapies.
- Supporting global initiatives to address neurodegenerative disorders: Neurodegenerative disorders are a global health issue, and international
 collaboration is necessary to address them.



conditions.

CONS

- Implementing these initiatives could be expensive and may require significant resources and funding from governments and public health organizations.
- Some people may not be receptive to these initiatives or may be resistant to seeking mental health resources or participating in genetic counseling.
- Anti-alpha synuclein drugs are still in the early stages of development and it is unclear whether they will be effective in treating neurodegenerative disorders. Additionally, these drugs may have side effects or potential risks that are not yet known.
- There may be ethical concerns related to prenatal testing and genetic counseling, such as concerns about privacy, informed consent, and potential discrimination against individuals with genetic predispositions to neurodegenerative disorders.





Technical Challenges

- 1. Developing effective anti-alpha synuclein drugs: While there is promising research on anti-alpha synuclein drugs, developing effective treatments can be challenging. Researchers need to ensure that the drugs are safe, effective, and can be delivered to the brain in sufficient quantities.
- 2. Ensuring access to mental health resources: Providing mental health resources to pregnant women can be challenging, particularly in areas with limited healthcare resources. Governments and public health organizations may need to invest in developing and expanding mental health services to ensure that pregnant women have access to these resources.
- 3. Educating healthcare providers about the importance of prenatal care and stress management: Healthcare providers may not always be aware of the importance of prenatal care and stress management in preventing neurodegenerative disorders. It may be necessary to provide education and training to healthcare providers to ensure that they are equipped to provide the best possible care to pregnant women.
- 4. Overcoming stigma associated with mental health: There is still a stigma associated with mental health in many societies. Pregnant women may be hesitant to seek out mental health resources due to fear of judgment or discrimination. Public health campaigns and education initiatives may be needed to address these stigmas and promote mental health resources as a normal part of prenatal care.
- 5. Addressing the cost of interventions: Providing access to mental health resources and developing new drugs can be expensive. Governments and healthcare organizations may need to invest significant resources in these interventions to ensure that they are accessible to all pregnant women, regardless of their socioeconomic status.

Ethics

- Privacy and confidentiality of patient information must be ensured.
- Informed consent must be obtained from participants in clinical trials.
- Equitable access to healthcare services and resources must be ensured for all individuals, regardless of socioeconomic status, race, or ethnicity.
- The use of animals in research must be conducted in an ethical and humane manner.
- The potential for unintended consequences, such as off-target effects of anti-alpha synuclein drugs, must be carefully considered and monitored.
- The potential for stigmatization of individuals with neurodegenerative disorders must be addressed through education and awareness campaigns.
- The cost-effectiveness of interventions must be considered to ensure that resources are being used efficiently and effectively.
- The potential for conflicts of interest, particularly in the development and marketing of new drugs, must be carefully managed and transparently disclosed.

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