

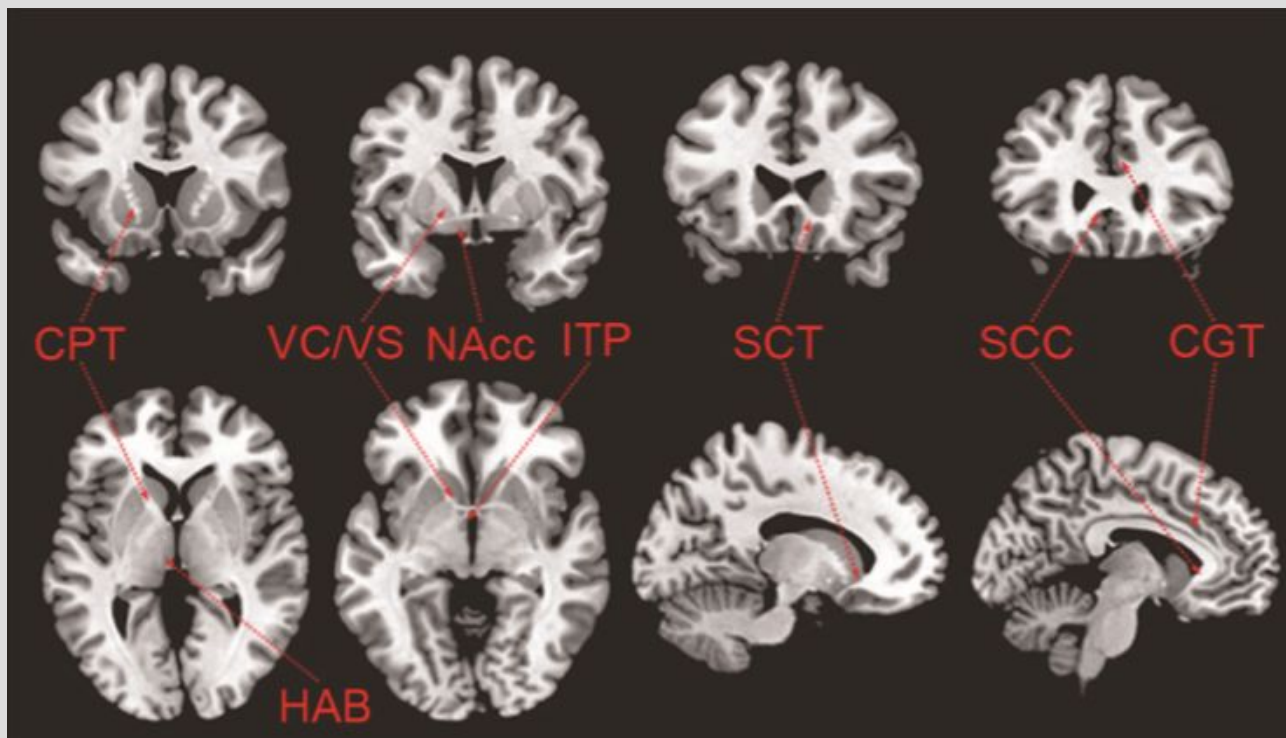
# **DEEP BRAIN STIMULATION**

# Contents:

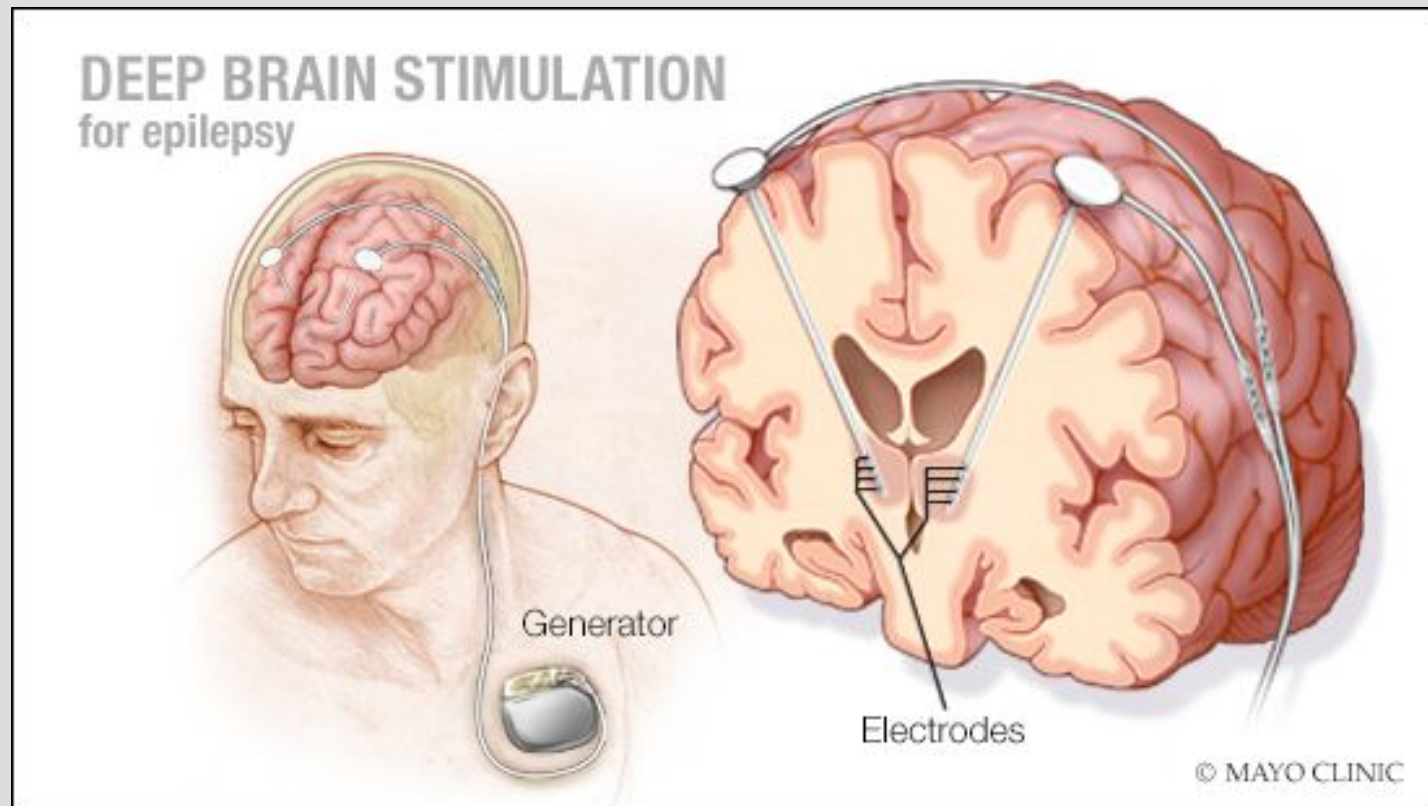
- Mechanisms
- DBS methods
- Side effects and prognosis

# Mechanisms

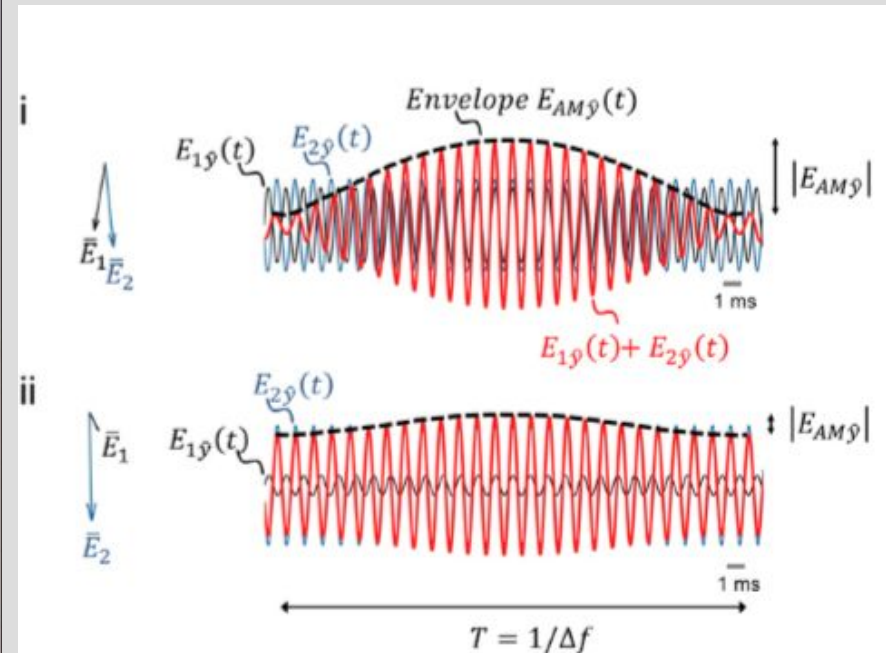
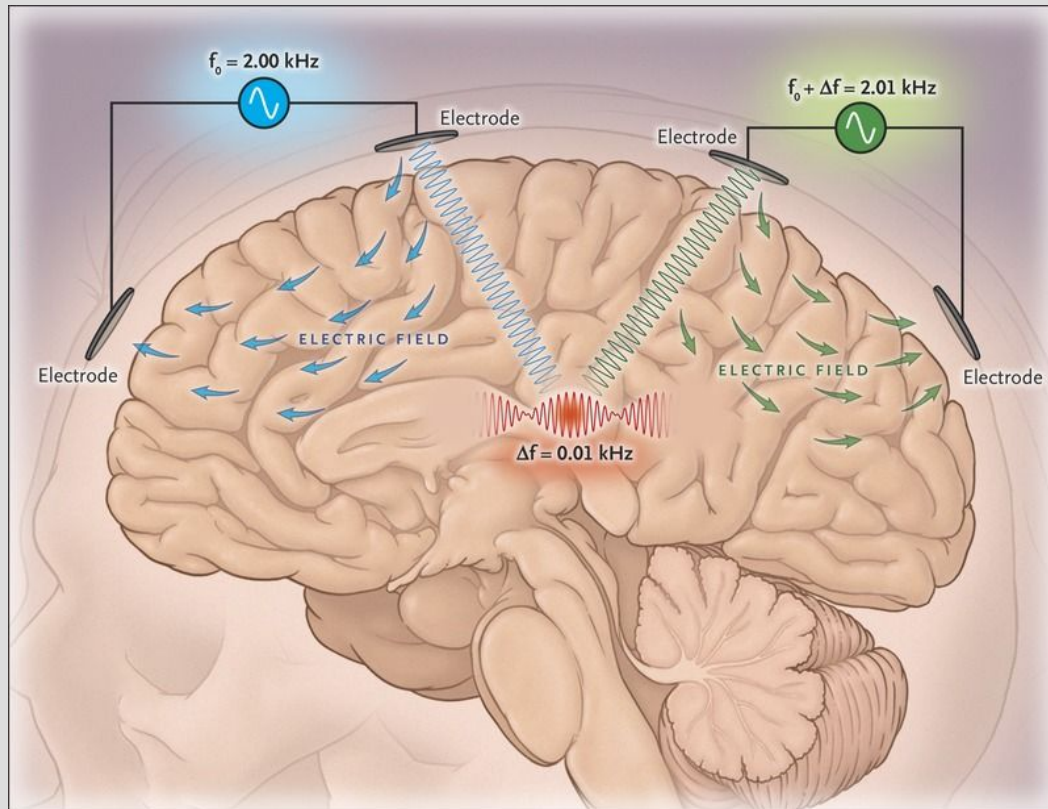
- Functional tissue damage
- Specific target is required



# Invasive DBS method



# Non-invasive DBS method



# Side effects and prognosis

- Accute side effects of surgery
- Psychological effects
- Stimulation-related effects
- Positive prognosis

# Summary:

- two methods exist
- side effects are timid
- mechanisms not fully understood

# References

- Advanced research on deep brain stimulation in treating mental disorders (Review) EXPERIMENTAL AND THERAPEUTIC MEDICINE 15: 3-12, 2018
- Noninvasive Deep Brain Stimulation via Temporally Interfering Electric Fields Cell magazine June 1 2017
- Five-Year Outcomes of Bilateral Subthalamic Nucleus Stimulation in Japanese Patients with Parkinson's Disease May 2015 in SciRes



