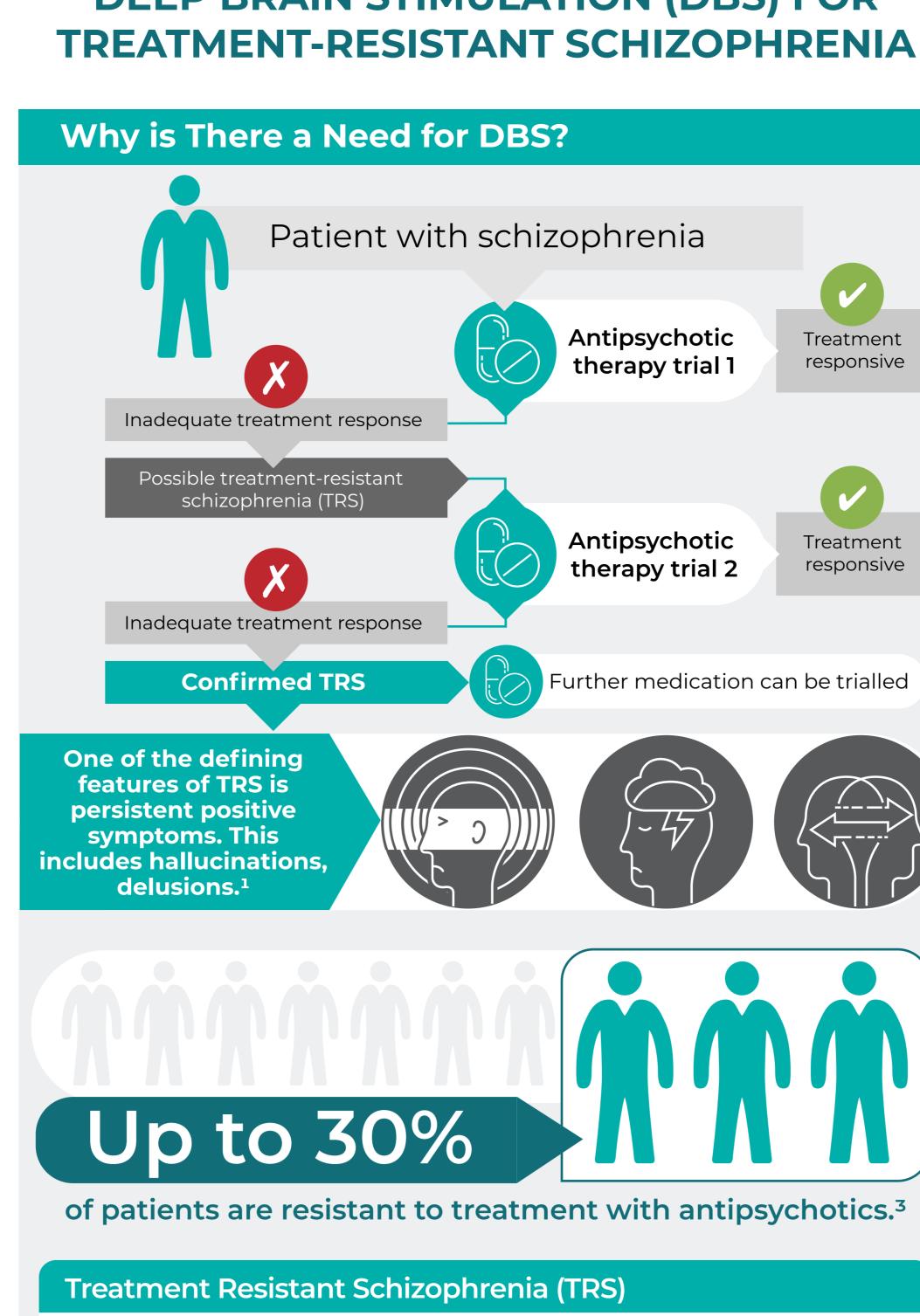
DEEP BRAIN STIMULATION (DBS) FOR



DBS if Antipsychotics Fail? DBS is being investigated as an alternative to antipsychotics in TRS as its use is established in other diseases such as movement disorders (>100,000 DBS cases).4 Parkinson's Disease.5,6 Schizophrenia¹⁰ OCD^7 $MDD^{7,9}$ 1986 1999 2008 2005

TRS is a sub-group of schizophrenia where symptoms persists despite:

Adequate duration

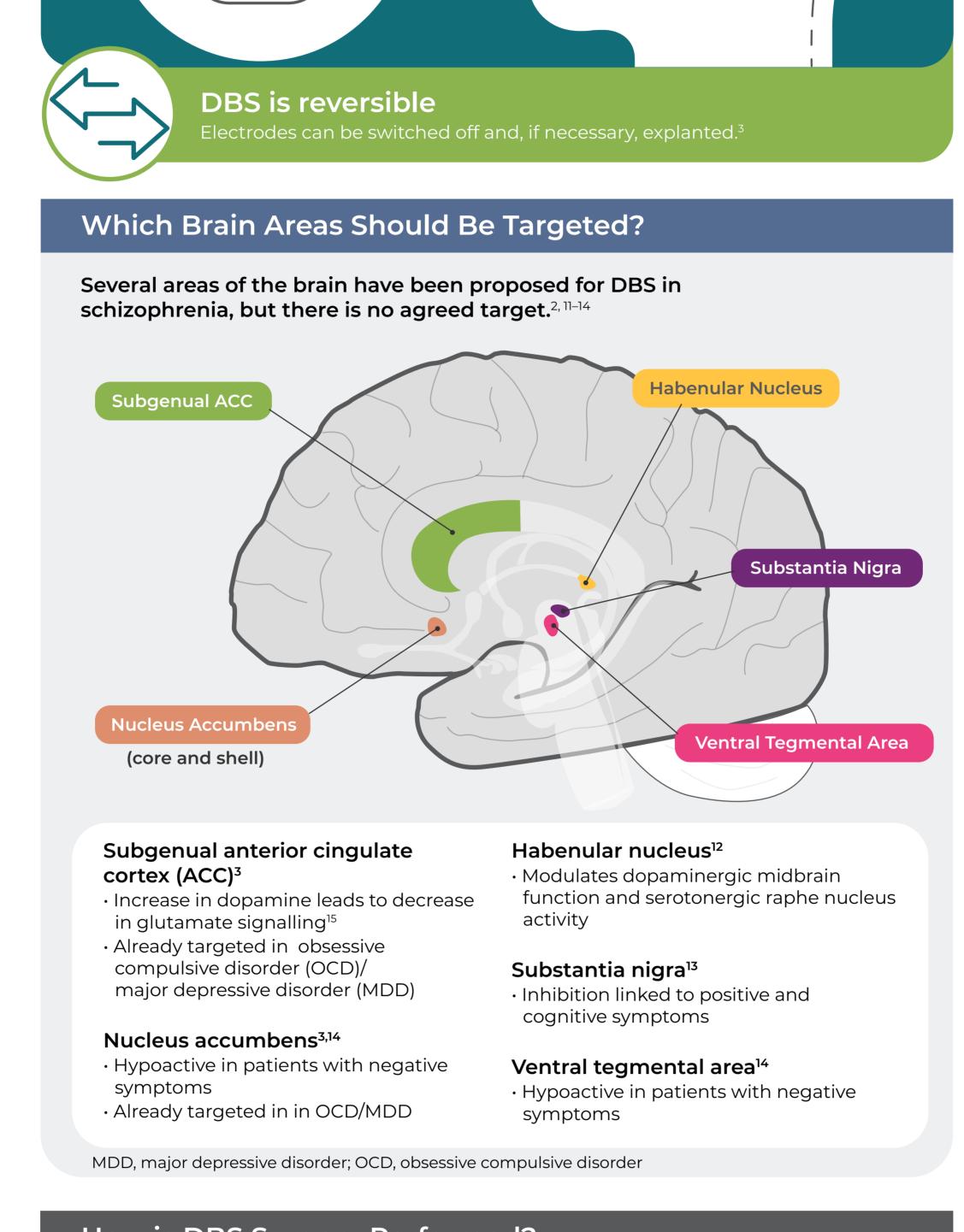
Documented adherence

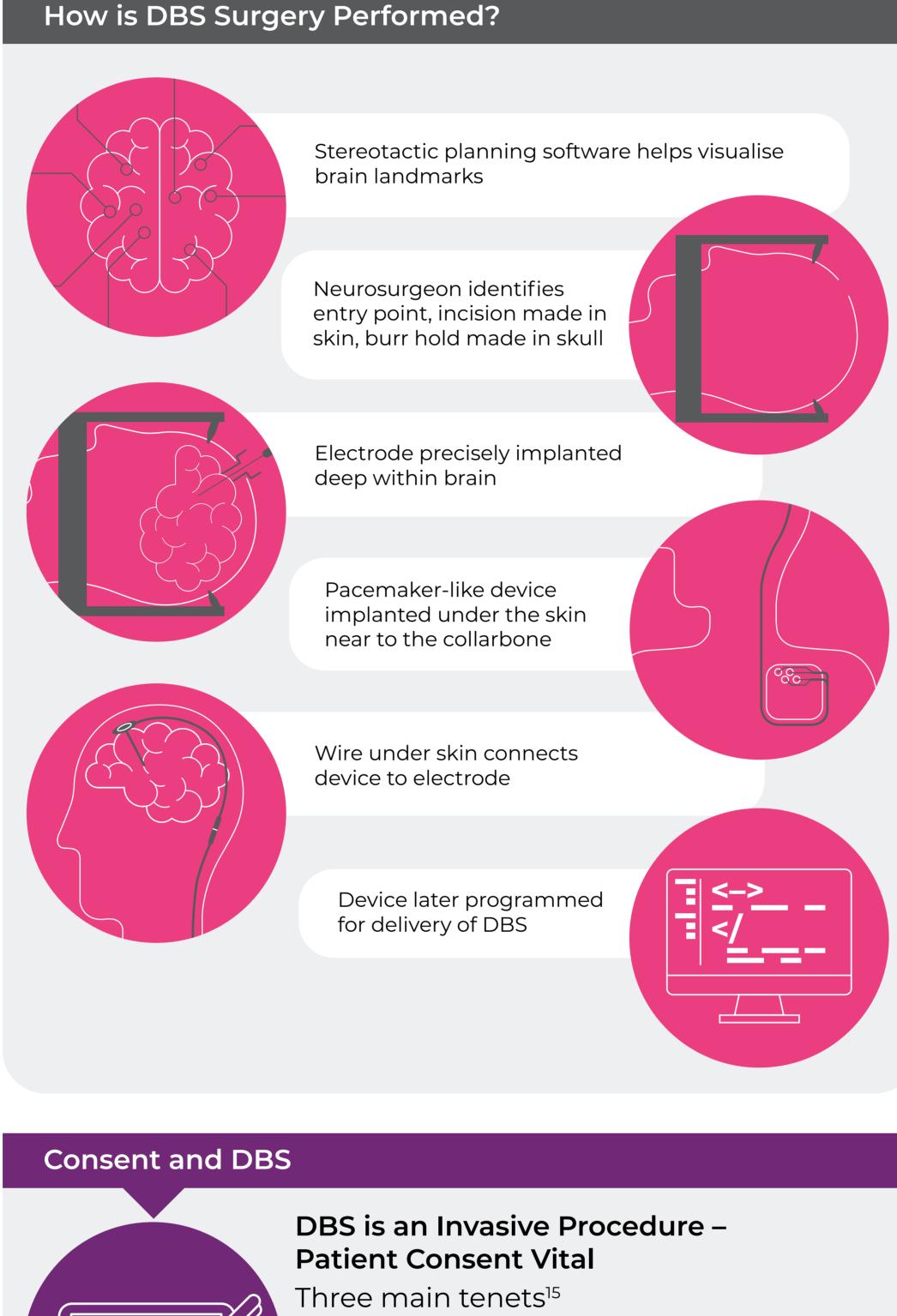
• ≥ 2 trials of antipsychotics

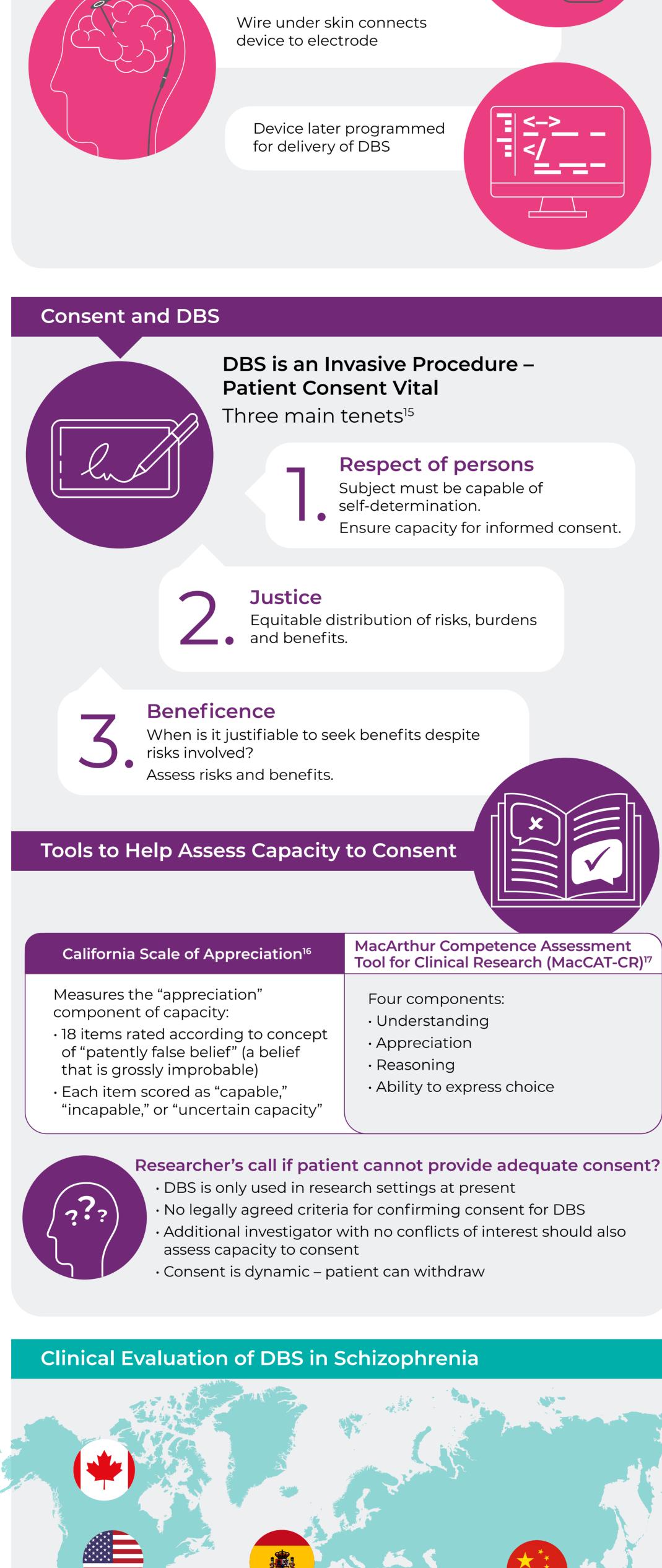
MDD, major depressive disorder; OCD, obsessive compulsive disorder

Adequate dose

How Does DBS Work? DBS involves the implantation of electrodes deep within the brain.4 • The electrodes are connected to a device that causes high frequency stimulation. · The high frequency stimulation is thought to cause functional inhibition of neurons or 'jamming' synaptic depletion around the electrodes.









motivated lifelong support is required.

may be a potential option for treatment-resistant patients." Iluminada Corriprio, ECNP presentation 2020

on DBS for Schizophrenia

References

Read the ECNP 2020 Highlights Article

12. Wang Y, et al. Neurosurg Focus. 2020;49(1):E9.

13. Clinicaltrials.gov. Deep Brain Stimulation in Treatment

https://www.hhs.gov/ohrp/sites/default/files/the-belmont-

16. Saks ER, et al. Am J Geriatr Psychiatry. 2002;**10**(2):166–74.

1. Potkin SG, et al. npj Schizophr 2020;**6**(1). 2. Howes OD, et al. Am J Psychiatry. 2017;174(3):216-29.

- 3. Corripio I, et al. EBioMedicine. 2020;**51**:102568. 4. Agnesi F, et al. In: Handbook of Clinical Neurology 2013:**116**:39–54. 5. Groiss SJ, et al. Ther Adv Neurol Disord. 2009;**2**(6):20–28. 6. Benabid AL, et al. Appl Neurophysiol. 1987;**50**(1-6):344-6.
- 7. Denys D, et al. Am J Psychiatry. 2020:**177**(3):265–71. 8. Mayberg HS, et al. Neuron. 2005;45(5):651-60.
- 9. Davidson B, et al. Expert Rev Med Devices. 2020;**17**(5):371–3. 10. Clinical Trials.gov. Transcranial Magnetic Stimulation (TMS) in Schizophrenia. NCT00564096. 11. Gault JM, et al. J Neurol, Neurosurgery Psychiatry 2018;89:777-87.
- Resistant Schizophrenia. NCT02361554. 14. Clinicaltrials.gov. Deep Brain Stimulation (DBS) for the Management of Treatment Refractory Negative Symptoms in Schizophrenia. NCT01725334... 15. Department of Health, Education, and Welfare. The Belmont Report. 1979. Available at:
 - 17. MacArthur Competence Assessment Tool for Clinical Research (MacCAT-CR). In: Kreutzer JS, DeLuca J, Caplan B (eds). Encyclopedia of Clinical Neuropsychology (2011). Springer, New York, NY. SCHIZOPHRENIA.LIFE

report-508c_FINAL.pdf.

