

## POTENTIAL BENEFITS & RESEARCH ON tDCS

Research has evidenced a range of potential benefits for Transcranial Direct Current Stimulation (tDCS). For instance, tDCS has been used:

- As a complementary tool in the treatment of anorexia (Hecht, 2010)
- To improve language performance in patients with aphasia (Flori et al., 2013; Monti et al., 2012; Wang, Wu Chen, Yuan & Zhang, 2013)
- To improve cognitive functioning in healthy subjects (Dockery, Hueckel-Weng, Birbaumer, & Plewnia, 2009; Smith, & Clithero, 2009)
- As a treatment for major depression with minimal side effects (Alonzo, Chan, Martin, Mitchell, & Loo, 2013; Boggio et al., 2008; Ferrucci et al., 2009; Loo et al., 2010)
- To reduce epilepsy (Faria, Fregni, Sebastiao, Dias, & Leal, 2012; Harden et al., 2000; Kamida et al., 2011)
- To reduce impulsivity (Fecteau, Knoch et al., 2007; Fecteau, Pascual-Leone et al., 2007)
- To reduce the perception of pain (Boggio, Zaghi, Lopes, & Fregni, 2008; DosSantos et al., 2012; Rosen, Ramkumar, Nguyen, & Hoeft, 2009; Zandieh et al., 2012)
- To improve the working memory (Boggio et al., 2006) and movement (Benninger et al., 2010) of patients with Parkinson's disease
- As a treatment for schizophrenia (Andrade, 2013; Brunelin et al., 2012; Homan et al., 2011; Rakesh et al., 2013; Shiozawa, da Silva, Cordeiro, Fregni, & Brunoni, 2013a, 2013b; Vercammen et al., 2011)
- To aid in rehabilitation after stroke (Fusco et al., 2013; Lefebvre et al., 2013; Schlaug, Renga, & Nair, 2008; Shigematsu, Fujishima, & Ohno, 2013)

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