



Introduction

The convergence of digital technologies with healthcare has led to the rise of innovative solutions that promise to reshape medical practice and patient care. Among these, Digital Twin (DT) technology stands out as a powerful tool for advancing personalized medicine. Digital twins

interoperability are overcome, digital twins will play an increasingly prominent role in reshaping the future of personalized medicine. Ultimately, by harnessing the full potential of digital twins, healthcare providers will be better equipped to improve patient outcomes, enhance the patient experience, and drive meaningful advances in medical science.

References

1. Langlitz N, Dyck E, Scheidegger M, Repantis D. (2021) Moral psychopharmacology needs moral inquiry: the case of psychedelics. *Front Psycho* 2: 1104.
2. Pieters T Snelders S (2009). Psychotropic drug use: Between healing and enhancing the mind. *Neuroethics* 2: 63-73.
3. Langlitz N, Dyck E, Scheidegger M, Repantis D. (2021) Moral psychopharmacology needs moral inquiry: the case of psychedelics. *Front Psycho* 2: 1104.
4. Pollan M (2019) How to change your mind: What the new science of psychedelics teaches us about consciousness, dying, addiction, depression, and transcendence. *J Psychoactive Drugs* 132:37-38.
5. Deijen CL, Vasmel JE, de Lange-de Klerk ESM, Cuesta MA, Coene PLO, et al. (2017) Ten-year outcomes of a randomised trial of laparoscopic versus open surgery for colon cancer. *Surg. Endosc.* 31: 2607-2615.
6. Correia MI, Waitzberg DL (2003) The impact of malnutrition on morbidity, mortality, length of hospital stay and costs evaluated through a multivariate model analysis. *Clin Nutr* 22: 235-239.
7. Gaedigk A, Blum M, Gaedigk R, Eichelbaum M, Meyer UA (1991) Deletion of the entire cytochrome P450 CYP2D6 gene as a cause of impaired drug metabolism in poor metabolizers of the debrisoquine/sparteine polymorphism. *Am J Hum Genet* 48: 943-950
8. Nagy M, Lynch M, Kamal S (2020) Assessment of healthcare professionals' knowledge, attitudes, and perceived challenges of clinical pharmacogenetic testing in Egypt. *Per Med* 17: 251-260
9. Alam MI, Baboota S, Ahuja A, Ali M, Ali J, et al. (2012) Intranasal administration of nanostructured lipid carriers containing CNS acting drug: pharmacodynamic studies and estimation in blood and brain. *J Psychiatr Res* 46: 1133-1138.
10. Beloqui A, Solinís MÀ, Rodríguez-Gascón A, Almeida AJ, Prétat V (2016) Nanostructured lipid carriers: promising drug delivery systems for future clinics. *Nanomed Nanotechnol Biol Med* 12: 143-161.