



Infographic information sources

Infographic 1: 'Physical therapy and mental health'

1 in 4 people will experience a mental health condition of some sort in their lifetime

World Health Organization (WHO) www.who.int/whr/2001/media_centre/press_release/en/

It is estimated that 1 in 6 in the past week experienced a common mental health problem

Mental Health Foundation www.mentalhealth.org.uk/statistics/mental-health-statistics-uk-and-worldwide

Mental health problems are one of the main causes of the overall disease burden worldwide

Mental Health Foundation www.mentalhealth.org.uk/statistics/mental-health-statistics-uk-and-worldwide

People with severe mental disorders die on average 10-20 years earlier, often of preventable non-communicable diseases such as heart disease, particularly in low- and middle-income settings

[Prevalence, incidence and mortality from cardiovascular disease in patients with pooled and specific severe mental illness: a large-scale meta-analysis of 3,211,768 patients and 113,383,368 controls.](#)
Correll CU, Solmi M, Veronese N, Bortolato B, Rosson S, Santonastaso P, Thapa-Chhetri N, Fornaro M, Gallicchio D, Collantoni E, Pigato G, Favaro A, Monaco F, Kohler C, Vancampfort D, Ward PB, Gaughran F, Carvalho AF, Stubbs B.

World Psychiatry. 2017 Jun;16(2):163-180

70% of premature deaths in mental health patients are due to poor physical health

[Prevalence, incidence and mortality from cardiovascular disease in patients with pooled and specific severe mental illness: a large-scale meta-analysis of 3,211,768 patients and 113,383,368 controls.](#)
Correll CU, Solmi M, Veronese N, Bortolato B, Rosson S, Santonastaso P, Thapa-Chhetri N, Fornaro M, Gallicchio D, Collantoni E, Pigato G, Favaro A, Monaco F, Kohler C, Vancampfort D, Ward PB, Gaughran F, Carvalho AF, Stubbs B.

World Psychiatry. 2017 Jun;16(2):163-180

20% of people living with osteoarthritis have depression or anxiety

[Prevalence of depressive symptoms and anxiety in osteoarthritis: a systematic review and meta-analysis.](#) Stubbs B¹, Aluko Y², Myint PK³, Smith TO⁴

Age Ageing. 2016 Mar;45(2):228-35

33% of stroke patients have depression

[Prevalence and predictors of post-stroke mood disorders: A meta-analysis and meta-regression of depression, anxiety and adjustment disorder.](#) Mitchell AJ¹, Sheth B², Gill J³, Yadegarf M⁴, Stubbs B⁵, Yadegarf M⁶, Meader N

Gen Hosp Psychiatry. 2017 Jul;47:48-60.

38% of people with frailty have depression

[Relationship between depression and frailty in older adults: A systematic review and meta-analysis.](#)
Soysal P¹, Veronese N², Thompson T³, Kahl KG⁴, Fernandes BS⁵, Prina AM⁶, Solmi M⁷, Schofield P⁸, Koyanagi A⁹, Tseng PT¹⁰, Lin PY¹¹, Chu CS¹², Cosco TD¹³, Cesari M¹⁴, Carvalho AF¹⁵, Stubbs B¹⁶.

Ageing Res Rev. 2017 Jul;36:78-87

Exercise is an evidence-based treatment for depression

[Exercise as a treatment for depression: A meta-analysis adjusting for publication bias.](#)

Schuch FB, Vancampfort D, Richards J, Rosenbaum S, Ward PB, Stubbs B.

J Psychiatr Res. 2016 Jun;77:42-51.

Offers protection against the emergence of depression

[Physical Activity and Incident Depression: A Meta-Analysis of Prospective Cohort Studies.](#)

Schuch FB, Vancampfort D, Firth J, Rosenbaum S, Ward PB, Silva ES, Hallgren M, Ponce De Leon A, Dunn AL, Deslandes AC, Fleck MP, Carvalho AF, Stubbs B.

Am J Psychiatry. 2018

Better outcomes are achieved when exercise is delivered by a physical therapist

[Exercise as a treatment for depression: A meta-analysis adjusting for publication bias.](#)

Schuch FB, Vancampfort D, Richards J, Rosenbaum S, Ward PB, Stubbs B.

J Psychiatr Res. 2016 Jun;77:42-51

Prevents the development of mental health issues

Zschucke, E., Gaudlitz, K. & Strohle, A. (2013). Exercise and Physical Activity in Mental Disorders: Clinical and Experimental Evidence. *J Prev Med Public Health*, 46 (1), 512–521

People with depression and schizophrenia are LESS likely to stop exercising when supported by a physical therapist

[Dropout from exercise randomized controlled trials among people with depression: A meta-analysis and meta regression.](#)

Stubbs B, Vancampfort D, Rosenbaum S, Ward PB, Richards J, Soundy A, Veronese N, Solmi M, Schuch FB.

J Affect Disord. 2016 Jan 15;190:457-466

[Prevalence and predictors of treatment dropout from physical activity interventions in schizophrenia: a meta-analysis.](#)

Vancampfort D, Rosenbaum S, Schuch FB, Ward PB, Probst M, Stubbs B.

Gen Hosp Psychiatry. 2016 Mar-Apr;39:15-23

Improves the quality of life and self-esteem of people experiencing mental health issues

Mental Health Foundation www.mentalhealth.org.uk/publications/how-to-using-exercise

Alfermann, D. & Stoll, O. (2000). Effects of Physical Exercise on Self-Concept and Wellbeing.

International Journal of Sport Psychology, 31, 47–65

Alexandratos, K., Barnett, F. & Thomas, Y. (2012). The impact of exercise on the mental health and quality of life of people with severe mental illness: a critical review.

British Journal of Occupational Therapy, 75 (2), 48–60

Has a large and significant antidepressant effect in people with depression

[Exercise as a treatment for depression: A meta-analysis adjusting for publication bias.](#)

Schuch FB¹, Vancampfort D², Richards J³, Rosenbaum S⁴, Ward PB⁴, Stubbs B⁵.

Infographic 2:Improving mental health with exercise

Long-lasting musculoskeletal disorders and mental health problems are leading causes of sick leave worldwide (WHO 2015). To meet the needs of the patient, physiotherapists offer a wide range of approaches with a focus on human movement and function

Basic body awareness therapy (BBAT): a movement awareness learning modality in physiotherapy, promoting movement quality

Helvik Skjaerven L, Mattsson M

Elsevier 2018;Physiotherapy in mental health and psychiatry a scientific and clinical base approach

People with mental health issues are more at risk of having poor physical health

[Physical multimorbidity and psychosis: comprehensive cross sectional analysis including 242,952 people across 48 low- and middle-income countries.](#)

Stubbs B, Koyanagi A, Veronese N, **Vancampfort** D, Solmi M, Gaughran F, Carvalho AF, Lally J, Mitchell AJ, Mugisha J, **Correll** CU.

BMC Med. 2016 Nov 22;14(1):189.

[Diabetes mellitus in people with schizophrenia, bipolar disorder and major depressive disorder: a systematic review and large scale meta-analysis.](#)

Vancampfort D, Correll CU, Galling B, Probst M, De Hert M, Ward PB, Rosenbaum S, Gaughran F, Lally J, Stubbs B.

World Psychiatry. 2016 Jun;15(2):166-74

[Risk of metabolic syndrome and its components in people with schizophrenia and related psychotic disorders, bipolar disorder and major depressive disorder: a systematic review and meta-analysis.](#)

Vancampfort D, Stubbs B, Mitchell AJ, De Hert M, Wampers M, Ward PB, Rosenbaum S, Correll CU. World Psychiatry. 2015 Oct;14(3):339-47.