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Glycogen Synthase Kinase 3 (GSK-3) and Suicide: A Systematic Review

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Protocol status: Working

We use this protocol, and it's working. We research Pubmed, Lilacs, and Embase. At this moment, we will identify papers. After that, we will include paper, extract the data and published results.

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Abstract

Introduction

Glycogen synthase kinase 3 (GSK-3) has been associated with a lot of diseases, such as Alzheimer's Disease and diabetes. Its role in depression is connected to stress and neuroinflammation. Lithium is an essential inhibitor of GSK-3. Some studies have suggested that the use of this psychiatric medication may lower suicide rates. Here, we outline the current understanding and discoveries regarding the link between GSK-3 and suicide.

Method

We used the PRISMA statement and defined the PECOS strategy, such as Population (P) = individuals; exposure (E) = GSK-3 alteration function; comparison (C) = without GSK-3 alteration function; outcome (O) = suicide; and study design(S) = all kinds of studies with an association between GSK-3 and suicide. It was search on Pubmed, Lilacs and Embase in March, 2025.

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1

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