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Name of Journal: World Journal of Psychiatry

Manuscript NO: 53644

Manuscript Type: ORIGINAL ARTICLE

Observational Study

Delirium, insulin-like growth factor I, growth hormone in older inpatients

Dimitrios Adamis, Iulian Coadă, Piet Eikelenboom, Che-Sheng Chu, Karen Finn,
Vincent Melvin, John Williams, David Meagher, Geraldine McCarthy

Abstract

BACKGROUND

Delirium is a common disorder in elderly medical inpatients with serious adverse

Serum levels of Insulin-like growth factor I (IGF-I) and Gr



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4. **IGF-I** and Ageing Processes. Disturbed **IGF-I** function is found in progeria syndrome [], and reduced **IGF-I** signaling in knockout mice strains is **associated** with reduced lifespan []. Aging is **associated** with a decrease in **serum levels** of **IGF-I** [50–53], while the **IGF-I**/IGFBP-3 (insulin-like **growth factor** binding protein) molar ratio is increased [54, 55].

Cited by: 18

Author: Dimitrios Adamis, David Meagher

Publish Year: 2011

Association between Serum IGF-I levels and Postoperative ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4742946>

Evidence is mixed for an association between **serum** insulin-like **growth factor-I (IGF-I) levels** and postoperative **delirium** (POD). The current study assessed preoperative **serum IGF-I levels** as a predictor of incident **delirium** in non-demented elderly elective knee arthroplasty patients.

Cited by: 3

Author: Timothy E. Yen, John C. Allen, Sarah K. ...

Publish Year: 2016

Insulin-Like Growth Factor 1 and Delirium in Critically

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Low levels of insulin-like growth factor 1 (IGF-1), a **hormone** with neuroprotective properties, has been associated with **delirium in** some non-ICU studies, but this relationship has not been examined **in the ICU**. We sought to test the hypotheses that low **IGF-1** concentrations are associated with **delirium** during critical illness.

Cited by: 16

Author: A. Morandi, M. L. Gunther, P. P. Pandhari...

Publish Year: 2011

Insulin-Like Growth Factor I and the Pathogenesis of ...

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Delirium is a frequent complication in medically **ill elderly patients** that is associated with serious adverse outcomes including increased mortality. **Delirium risk is linked** to older age, dementia, and illness that involves activation of inflammatory responses.

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Delirium is a frequent complication in medically ill elderly patients that is associated with serious adverse outcomes including increased mortality. **Delirium** risk is linked to **older** age, dementia, and illness that involves activation of inflammatory responses. IGF-I is increasingly postulated as a key link between environmental influences on body metabolism with a range of neuronal activities ...

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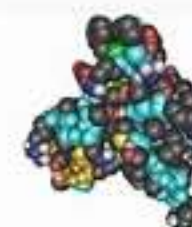
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Insulin-like growth factor



The insulin-like growth factors are proteins with high sequence similarity to insulin. IGFs are part of a complex system that cells use to communicate with their physiologic environment. This complex system consists of two cell-surface receptors, two ligands, a family of seven high-affinity IGF-binding proteins, as well as associated IGFBP degrading enzymes, referred to collectively as proteases.

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