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Late-onset non-islet cell tumor hypoglycemia: a case report

Non-islet cell tumor hypoglycemia

Abstract

BACKGROUND

Hypoglycemia due to non-insulin-producing tumors is referred to as non-islet cell tumor hypoglycemia (NICTH). As NICTH is a rare lesion, the natural course of NICTH is not well understood. We report a case of NICTH that was observed 30 years before the onset of hypoglycemia.

CASE SUMMARY

A 50-year-old man was diagnosed with an abnormal right chest shadow during a

Match Overview

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As this case report has shown, hypoglycemia in the setting of decreased **insulin levels** is suggestive of a diagnosis of **non-islet cell tumor hypoglycemia (NICTH)**. When NICTH is a paraneoplastic syndrome associated with **gastrointestinal stromal tumor (GIST)**, the tumor produces an altered form of **insulin-like growth factor (IGF)-2**, which results in hypoglycemia.

Cited by: 2 Author: John M Wilson, Jessica Ginsberg, Karen ...

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Non-islet cell hypoglycemia (NICH) is a rare cause of hypoglycemia which is due to excessive secretion of insulin-like growth factor (IGF)-2 or pro IGF-2. These molecules can activate the insulin receptor and can cause hypoglycemia. NICH is seen in association with epithelial and mesenchymal tumors. (1) NICH is potentially misdiagnosed or underdiagnosed due to its rarity, non-classical clinical presentation, and an ambigou...

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Background: **Non-islet cell tumor hypoglycemia (NICTH)** is defined as a form of **hypoglycemia** caused by an **extrapancreatic tumor**. **Solitary fibrous tumor (SFT)** associated with **hypoglycemia** is rare. Case presentation: A 76-year-old woman, who had frequently experienced **hypoglycemic symptoms** such as presyncope for the prior 6 months, visited our hospital to undergo detailed examinations.

Cited by: 3 **Author:** Masahiro Kitada, Shunsuke Yasuda, Nana ...

Publish Year: 2016

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Methods

Epidemiology

Pathophysiology

Tumor Characteristics



PubMed searches were conducted for the following terms: "non-islet-cell tumor hypoglycemia," "NICTH," "Doege-Potter," "Doege-Potter syndrome," "high molecular weight IGF-II," and "big IGF-II." All articles identified by these searches were reviewed if the article text was available in English. Case reports and case series were included in our detailed review and summary if they were published between January 1, 1988, and August 15, 2013. This time period was chosen to correspond with the elucidation of the mech...

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Cited by: 95

Author: Timothy W. Bodnar, Maria J. Acevedo, Mas...

Publish Year: 2014

Published: Mar 01, 2014

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