

## Accepted Manuscript

High serum levels of tenascin-C are associated with suicide attempts in depressed patients

Rui Peng , Wen Dai , Yan Li

PII: S0165-1781(18)30083-0  
DOI: [10.1016/j.psychres.2018.06.069](https://doi.org/10.1016/j.psychres.2018.06.069)  
Reference: PSY 11547



To appear in: *Psychiatry Research*

Received date: 13 January 2018  
Revised date: 18 May 2018  
Accepted date: 28 June 2018

Please cite this article as: Rui Peng , Wen Dai , Yan Li , High serum levels of tenascin-C are associated with suicide attempts in depressed patients, *Psychiatry Research* (2018), doi: [10.1016/j.psychres.2018.06.069](https://doi.org/10.1016/j.psychres.2018.06.069)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

# High serum levels of tenascin-C are associated with suicide attempts in depressed patients

Rui Peng, Wen Dai, Yan Li

Department of Clinical Laboratory, Renmin Hospital of Wuhan University, Wuhan, China

Correspond author: Yan Li, Department of Clinical Laboratory, Renmin Hospital of Wuhan University, 238 Jiefang Road, Wuhan(China). Tel: +862788071553, E-mail: [yanlitf1120@163.com](mailto:yanlitf1120@163.com)

## ABSTRACT

The proteomic study reported that Tenascin-C might be a diagnostic biomarker for major depressive disorder, but clinical studies of this potential relationship are lacking. Here we examined the association between tenascin-C levels in serum and suicide attempts. Serum tenascin-C concentrations were compared among depressive patients who had not attempted suicide ( $n = 86$ ), patients who had attempted it ( $n = 43$ ), and healthy controls ( $n = 109$ ). All participants were aged between 18 and 68 years. The association between concentration and suicide attempts was assessed by multivariate analysis after adjusting for sociodemographics, lifestyle and health indicators. Tenascin-C concentrations were higher in patients than in controls, and higher in patients who had attempted suicide than in patients who had not. Higher concentrations were associated with greater risk of attempting suicide. Among patients who had attempted suicide, tenascin-C concentrations were associated with severity of depression. Our results suggest that high tenascin-C levels in depressive patients correlate with suicide attempts and severity of depression. Tenascin-C may contribute to risk of suicide attempts in depressed patients.

**Keywords** tenascin-C; depression; suicide attempts; severity

## 1. Introduction

Major depressive disorder is a crucial public health challenge and is considered the

Download English Version:

<https://daneshyari.com/en/article/6811120>

Download Persian Version:

<https://daneshyari.com/article/6811120>

[Daneshyari.com](https://daneshyari.com)