



Exploration of the immunoreactivity of the Traditional Chinese medicine Shenrouyangzhentang to vasoactive intestinal polypeptide

Yu-Chun Gu, De-Zhen Chen

Yu-Chun Gu, De-Zhen Chen, Department of Traditional Chinese Medicine, The First Affiliated Hospital of Nanjing Medical University, Nanjing 210029, Jiangsu Province, China

Author contributions: All authors contributed equally to the work.

Original title: China National Journal of New Gastroenterology (1995-1997) renamed World Journal of Gastroenterology (1998-).

Received: July 4, 1996
Revised: November 14, 1996
Accepted: March 1, 1997
Published online: June 15, 1997

Abstract

AIM: To study the immunoreactivity of the Chinese medicine Shenrouyangzhentang to vasoactive intestinal polypeptide (VIP) and its therapeutic mechanism.

METHODS: The immunoreactivity of the Chinese medicine Shenrouyangzhentang to VIP was detected in the plasma of 20 normal people and 20 patients with Piyinxu (Spleen Yin deficiency) using the radioimmunoassay (RIA) method.

RESULTS: The maximum binding rate B_0/T was 53.29%, the non-specific binding rate N_0/T was 1.170%, and the VIP standard curve was $Y = 0.81983 + 0.44319X - 0.28927X^2$, $R^2 = 0.990$. The VIP content in Shenrouyangzhentang was $106.6 \text{ ng/L} \pm 20 \text{ ng/L}$, while it was $90.16 \text{ ng/L} \pm 15 \text{ ng/L}$ in normal human plasma and $63.25 \text{ ng/L} \pm 11 \text{ ng/L}$ in the plasma of Pixinxu patients. The difference between normal plasma and Pixinxu patient plasma was statistically significant ($P < 0.05$).

CONCLUSION: The Chinese medicine Shenrouyangzhentang demonstrated VIP immunoreactivity similar to that of normal plasma. The (vasoactive intestinal polypeptide) VIP content in Pixinxu patient plasma was lower than that in healthy subjects ($P < 0.05$).

Key words: Qi-reinforcing agents/analysis; Radix Paeoniae Alba/analysis; Pseudostellaria heterophylla/analysis; Poria cocos/analysis; Vasoactive intestinal peptide/analysis; Composite

© The Author(s) 1997. Published by Baishideng Publishing Group Inc. All rights reserved.

Gu YC, Chen DZ. Exploration of the immunoreactivity of the Traditional Chinese medicine Shenrouyangzhentang to vasoactive intestinal polypeptide. World J Gastroenterol 1997; 3(2): 83 Available from: URL: <http://www.wjgnet.com/1007-9327/full/v3/i2/83.htm> DOI: <http://dx.doi.org/10.3748/wjg.v3.i2.83>

S- Editor: Filipodia L- Editor: Jennifer E- Editor: Liu WX



Published by **Baishideng Publishing Group Inc**
8226 Regency Drive, Pleasanton, CA 94588, USA
Telephone: +1-925-223-8242
Fax: +1-925-223-8243
E-mail: bpgoffice@wjgnet.com
Help Desk: <http://www.wjgnet.com/esps/helpdesk.aspx>
<http://www.wjgnet.com>



ISSN 1007-9327

