

Metabolic syndrome risk in relation to posttraumatic stress disorder among trauma-exposed civilians in Gansu Province, China

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Abstract

This study included 1456 men and 1411 women who were trauma-exposed and underwent routine health examinations in a community epidemiological investigation. The participants completed the posttraumatic stress disorder (PTSD) Check List-Civilian Version (PCL-C) for PTSD and medical examinations to detect metabolic syndrome. Adjustments for age, marriage, exercise, education, cigarette smoking, cancer, stroke, angina, and thyroid disease were performed. The relationship between PTSD and metabolic syndrome and each of its components was analyzed by multiple logistic regressions. In women, PTSD was associated with metabolic syndrome (OR=1.53, 95% CI= 1.01-1.95, $p=0.047$) and the high-density lipoprotein cholesterol component (OR=1.98, 95% CI= 1.04-2.12, $p=0.002$). In men, PTSD was related to the hypertension component of metabolic syndrome (OR=0.54, 95% CI= 0.31-0.92, $p=0.023$). There was also a relationship between PTSD severity and metabolism (OR=1.141, 95% CI= 1.002-1.280, $p=0.037$) in women, and PTSD was inversely associated with the hypertension component (OR=0.54, 95% CI= 0.31-0.92, $p=0.023$) in men. PTSD was related to metabolic syndrome only in women. We plan to further research the mechanism of sex differences and dyslipidemia.

Speaker Publications:

1. "Analysis of Peripapillary and Macular Choroidal Thickness in Eyes with Pseudoexfoliative Glaucoma and Fellow Eyes"
2. "Correlation Between Serum TSH Levels Within Normal Range and Serum Lipid Profile"
3. "Synthesis, characterization and in vitro antibacterial mechanism study of two Keggin-type polyoxometalates"
4. "Vitamin D Status and Correlation with Glucose and Lipid Metabolism in Gansu Province, China"
5. "The Effects of Trabeculectomy on Pseudoexfoliation Glaucoma and Primary Open-Angle Glaucoma"

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Biography:

Ma Lihua is the second year of PhD student at Sichuan University now and has accepted Master's degree from The Fourth Military Medical University. She is the director of endocrinology department nurses in the first hospital of Lanzhou University and Chinese nursing association diabetes youth committee. He has published 4 papers in SCI journals.