I Eat, Therefore I Am (Not) Stressed: Understanding the Role of Food, the Body and Stress

Parastou Zerang MSN

Centre for Research in Occupational Safety and Health

Outlines

The definition of mental health

Types of stress reaction

Fast and slow response to stress

Difference between acute and chronic stress

Protective effect of diet on stress

The adverse effect of diet on stress



Mental health

Physical Health Behavior Thinking Emotions



WHO Definition





Mental health

Increasing globally

1 in 5 years lived with disability Adverse effects on life



Mental health





Anxiety

Most Prevalent



Triggered by Stress



Stress

Evolutionary response



Related to quality of life



Stress stimuli





Positive stress (eustress)

Negative stress (distress)



Types of stressors

Everyday hassles

Significant life changes or turning

Catastrophes or traumatic events



Stress reaction - Physiological response





Stress reaction - Physiological response





Physiological stress response









Fast stress response







Fast stress response





Slow response



Endocrine System

Cortisol







Length of stressors





Acute stress





Chronic stress





Treatment

Treatment offers tools that can be used to manage symptoms or cope with the symptoms, and deal with triggers more effectively.









Effect of nutrition on stress and anxiety





Stress and obesity





Stress and dietary pattern







Same Origin of Gut and Brain

Common signalling pathways

Make a Relationship Between Food and Mental Health





Microbiota in the gut

Immune pathway

Nerve pathway

Endocrine pathway



Microbiota in the gut



Leaky Inflamed Gut



Healthy Gut











Dietary pattern

Protective

Adverse



Protective effect



Mediterranean diet



Diet rich in fruit and vegetables

Probiotics











Protein intake







Healthy Gut



Adverse effect













High fat Diet







Vitamins and minerals







Inflammation plays an important role in stress and anxiety mechanism

Following a healthy diet rich in plants, oils, fiber and protein have a protective effect on inflammation and reduce stress and anxiety

Diets rich in sugar and processed food increase inflammation and cortisol and consequently stress levels



Acknowledgement









