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**Adel abdel-Wadood  
Gomaa**

**Editor of Journal of  
Pharmaceutical Care & Health  
Systems**

- Professor of Medical Pharmacology,  
Faculty of Medicine, Assiut University  
Director of Research Center of  
Experimental Treatment of Aging Diseases

**Biography**

- Exploring of new drug treatment

**Research Interests**

- **INTERNATIONAL JOURNALS**

1- Influence of dipyridamole and its combination with NO donor or NO synthase inhibitor on adjuvant arthritis. International Immunopharmacology .10,1406-1414 2010

- **First author**

2-Enhancement of the anti-inflammatory and anti-arthritic effects of theophylline by a low dose of a nitric oxide donor or non-specific nitric oxide synthase inhibitor British Journal of Pharmacology. 158, 1835-1847, 2009

- **First author**

3-Dual Effect of nitric oxide donor on adjuvant arthritis International Immunopharmacology, 9, 439-447, 2009

- **First author**

4-The immunopotentiator effects of Nefopam, International Immunopharmacology 7,266-271, 2007

# Recent Publications

# Why do people use drugs?

- Brainstorm a list of reasons people give for using drugs.
- What are some of the positive, beneficial or desirable effects that people might experience when using drugs

# Some reasons people give for using drugs

- Fun/enhance pleasurable activities/intensify feelings
- Experiment, explore new experiences
- Unwind, cope with stress
- Escape reality, numb feelings
- Deal with emotional pain or discomfort
- Respond to social pressure or norms
- Make social contact easier
- Enhance artistic creativity
- Spiritual or meditative pursuits
- Self-medicate for anxiety, depression, cognitive dysfunction



- What is “addiction”?
- What is “substance abuse”?
- What are the causes of addiction?
- A brief history of the meaning of addiction and substance abuse

## **KEY CONCEPTS**

# What is "addiction"?

What is first word that comes to mind if you are asked that question?

- varies widely within and across societies
- is to some degree culturally determined
- is an evolving concept within our society

## The meaning of "addiction":

# Models of addiction

- Moral models
- Disease models
- Social models
- Biopsychosocial models

- The temperance movement
- The War on Drugs

## **Moral models of addiction**

- The 12-Step Movement
- Biology of addiction

## **Disease models of addiction**

- The behaviourists
- The Independent Living Movement

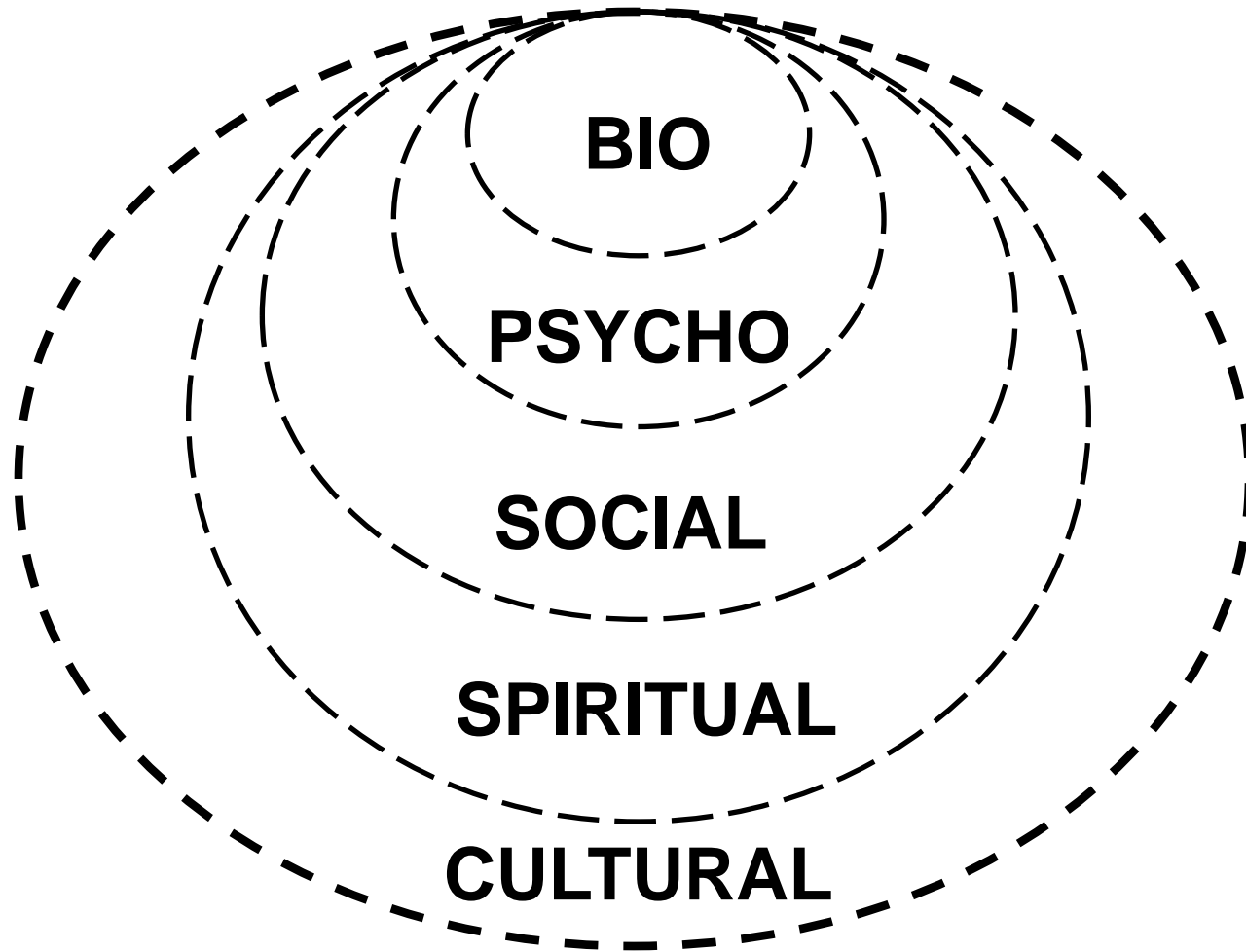
## **Social models of addiction**

# Biopsychosocial models of addiction

- Determinants of health & disability
- Inclusion of spiritual factors
- Better understanding of interaction of physical, psychological, social & spiritual factors



# Addiction: An Integrated Model



# Current concepts in understanding meaning of “substance abuse” and “addiction”

- Physical dependence
  - Drug tolerance
  - Withdrawal
- Psychological dependence
- Harm

# Physical Dependence

- state in which the body has adapted to the presence of the drug at a particular level
- when the drug concentration falls, withdrawal results

## PHYSICAL DEPENDENCE

# Tolerance

- the need for an increased amount of a given drug to achieve intoxication or desired effect
- or the reduction of a drug's effect with continued use of the same dose over time

## PHYSICAL DEPENDENCE

# Withdrawal

- Occurs when a drug is abruptly removed, or dose is significantly decreased
- Cluster of symptoms often accompanied by directly overt physical signs

## Withdrawal ...cont'd

- Withdrawal generally looks opposite to the intoxication.
- Unpleasantness of withdrawal may be so severe that the individual fearing it may use drug again just to avoid or relieve symptoms

# Psychological Dependence

- a state in which stopping or abruptly reducing the dose of a drug produces non-physical symptoms
- characterized by emotional and mental preoccupation with the drug's effects and a persistent craving for the drug

# Harm

- Central concept in understanding both addiction and substance abuse
- Types of harm:
  - Physical
  - Psychological
  - Social (e.g., family, friends, job, financial, legal system)
  - Spiritual



# Abbreviated List of Criteria for Abuse and Dependence

- Preoccupation with substance
- Increased use of substance beyond expected
- Inability to control use
- Withdrawal symptoms
- Signs of tolerance
- Restricted activities
- Impaired functions
- Harmful or hazardous use

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