SUBSTANCE ABUSE DISORDERS

BY: PROF. M. WANGARI KURIA PhD MMED PSYCH. MBCHB

DATE: 12/8/2016

OBJECTIVES

Definitions

Classifications

Current pattern of drugs used

Stages of substance use

Alcohol related disorders

Substance related disorders

DEFINITIONS

DRUG

*Any chemical substance or a mixture of substance which when introduced in to the living organism may modify one or more of its functions.

DRUG ABUSE

- # Drug abuse is persistence and/or excessive use of a drug inconsistent with or unrelated to medical practice, resulting to harmful effects.
- #This harmful effects may be physical, mental social or otherwise

DRUG MISUSE.

#Unsanctioned or illegal use of drug i.e. the society or group within the society does not sanction the use of the drugs.

DEPENDENCE.

Drug dependence is an emotional and sometimes a physical need experienced by a drug abuser. The drug abuser feels a compulsion to take the drug on a regular basis to feel its effect to avoid the discomfort of its absence

TOLERANCE.

- #The repeated use of a drug leads to changes in the brain and nervous system so that the user needs more of the drug in order to get expected results.
- #Tolerance develops when the person has been taking the drugs regularly and in sufficient doses over a period of time.
- **Once the person stops taking the drug the tolerance is lost. Cross-tolerance can occur between drugs with similar mechanisms of action.

CLASSIFICATION OF DRUGS

- **#** Depressants
- **Stimulants**

- **# Hallucinogens**
- **#Inhalants**

Depressants/Stimulants

DEPRESSANTS

#These are substances that suppress the central nervous system.

#This includes:

- Alcohol
- Opiates (Pethidine, Morphine and Heroine)
- Tranquillizers

STIMULANTS

- ****These are substances that stimulate the CNS and they include:**
 - Caffeine
 - Amphetamines
 - Khat

 - Cocaine
 - Methylphenidate(Ritalin)

<u>HALLUCINOGENS</u>

- Hallucinations. They include:
 - Lysergic Acid Diethyl amine (LSD)
 - Phencyclidine
 - Ecstasy
 - Mescalidine.

DEPRESSANT/STIMULANT

Cannabis

- Harrie This is derived from marijuana plant
- It produces a combination of effects to the central nervous system.
- It has a depressant and stimulant effect as well as hallucinogenic properties

FACTORS THAT CONTRIBUTE TO USE AND ABUSE OF DRUGS

Easy accessibility

When the drug is accessible then the person is more likely to abuse the drugs.

Peer pressure

- Most of the people using drugs receive the first dose free of charge from the peer group.
- Peer pressure is an important factor not only leading individual to begin use of drug but also in sustaining use of drug.

CONT.

Poor parentage

Learning through modeling occurs in children where they do as their parents do.

Media influence

Advertisement of drugs portrays it as a drug worth trying.

Among the youth media influence their use alcohol.

CONT.

Gender

- The cultural setup is more permissive when it comes to men drinking and using drugs.
- Men also have more leisure time than women who have various scores to keep them busy.
- Until recently African man handled all financial matters.
- Due to this financial ability males abuse alcohol more than females.

STAGES OF SUBSTANCE USE

1. No Use

- # The person does not use any mood altering substances.
- # This is either by **choice** due to never having the chance to use;
- # Having a **belief or value against using**, OR
- # Having a **previously bad experience** with drugs or alcohol and deciding that this is not a good thing for the person to be doing.
- **** Majorities of Kenyans are in this category**

2. EXPERIMENTAL USE

- ****This the Novel (new) Experience**
- #The person tries the drug once or twice to experience the effects.
- #The decision to continue using the drug or not depends upon the person's subjective experience.
- #they may use because they are **curious**, their friends are using, or it is available to them.

3. SOCIAL USE

- **Substance use 'Adds to Life'**
- # The person uses the drug occasionally, and can readily control the use of the drug.
- # Their **Major Life Areas** are not affected. No emotional pain results from the drug use.
- # The drug use patterns, and reactions and consequences of drug use are known and predictable.

CONT.

- ## During this stage, the person's tolerance to the drug begins to increase, and they may develop a pattern of using such as every weekend, or every day after school.
- # The reason for the social gatherings (friends getting together) starts to revolve around the substance use.
- At this point, the person has begun to experience a **few negative consequences** from using such as a hangover, or missing an appointment, school or work, and **tries to set a few self-imposed rules** for using such as only using on weekends, only using at certain times, or only using a certain amount.

4. HARMFUL USE

- **Substance use "Becomes Life" Compulsive use**
- # The person:
 - Uses the drug regularly and frequently.

 - Makes attempts to control use of the drug but has difficulty doing so.
- **Some Major Life Areas are affected**, <u>drug use continues</u> despite the appearance of negative drug use patterns & consequences.

CONT.

- **Emotional pain** starts to result from the use of the drug, experiences withdrawal symptoms, tolerance begins to increase, minimizes or rationalizes drug use.
- #The person may deny that the drug is causing problems and begins to make promises to self and others about quitting or cutting down.
- #The person is beginning to **feel that they have less control** over their substance use.

5. DEPENDENCE

#The person (uses the drug very regularly and very frequently, feels they have lost control over the use of the drug.

SUBSTANCE USE DISORDER

- # The following disorders are related to substance use for every substance of abuse (Substance-related disorders):

 - Substance intoxication
 - Substance withdrawal delirium
 - Substance induced persisting dementia

SUBSTANCE RELATED DISORDERS

#Substance induced:

- Amnestic disorder
- Psychotic disorder
- Mood disorder
- Anxiety disorder
- Sexual disorders
- Sleep disorders
- Substance related disorder not otherwise specified

ALCOHOL-RELATED DISORDERS

- **# Alcohol use disorder**
 - Alcohol dependence
 - Alcohol abuse
- **# Alcohol induced disorder**
 - Alcohol intoxication
 - Alcohol withdrawal delirium
- **# Alcohol intoxication delirium**
- **** Alcohol-induced persisting dementia**
- **Alcohol-induced persisting** amnestic disorder

- Alcohol induced psychotic disorder with delusions
- **** Alcohol induced psychotic disorder hallucinations**
- **# Alcohol-induced mood disorder**
- **** Alcohol induced anxiety disorder**
- ****** Alcohol induced sleep disorder
- **#** Alcohol induced sexual dysfunction
- **Alcohol-related disorder not otherwise specified.**

INTRODUCTION

- # Alcohol is a mind and mood altering substance that has an effect on our brain functioning and ultimately on our body and behavior
- # Alcohol is a drug with a depressant effect to the brain

ALCOHOL ABUSE

- # Persistence and/or excessive use of a drug inconsistent with or unrelated to medical practice, resulting to harmful effects.
- # These harmful effects may be physical, mental, social or otherwise.

ALCOHOL DEPENDENCE

#A cluster of physiological behavior and cognitive phenomena in which the use of a substance or class of substances takes on a much higher priority for a given individual than other behavior that once had greater value.

7 SIGNS OF ALCOHOL DEPENDENCE ACCORDING TO DSM IV

- 1. **Tolerance**: The person requires an increasing amount of alcohol to produce the same effect as previously used doses of alcohol.
- 2. Withdrawal syndrome: The person develops symptoms when he has not taken alcohol.
- 3. **Primacy**: Alcohol takes primacy over other activities including, employment, business, and family education etc.

CONT.

- **4. Stereotyped pattern of use:** There is a regular pattern of use of the drug to avoid withdrawal syndrome.
- **5. Relieve drinking: The** person takes alcohol to relief the withdrawal symptoms.
- **6. Reinstatement after period of abstinence:** There is a quick reinstatement to full drinking once the person resumes drinking.
- 7. The substance use is continued despite knowledge of having a persistent or recurrent physical or psychological complications.
- # Treatment of alcohol dependence involves:
 - Detoxification
 - Rehabilitation

ALCOHOL INTOXICATION

The diagnosis of Intoxication emphasizes:

- A sufficient alcohol consumption
- Specific maladaptive behavioral changes
- ✓ Signs of neurological impairment
- Absence of other confounding diagnoses or conditions

CONT.

Alcohol intoxication may cause:

- ✓ Coma
- Respiratory depression
- Death

Treatment may include:

- ✓ ICU admission to support respiration
- Balancing electrolytes and controlling temperature

ALCOHOL WITHDRAWAL

#The classic sign of alcohol withdrawal is **tremor**.

- **#Others symptoms include:**
 - Hallucinations & delusions

 - □ Gastrointestinal symptoms (nausea/vomiting)
 - Sympathetic hyperactivity (sweating, anxiety, flushing, tachycardia and mild hypertension)
 - Alcohol withdrawal delirium/Delirium tremens

CONT.

- ****** Alcohol withdrawal may cause the following:
 - ✓ The psychotic features & perceptual disorders occur within 8 12 hours
 - ✓ Withdrawal seizures this are fits that occurs in 12-24 hours after stopping alcohol
 - Delirium tremens occurs within 72 hours

DELIRIUM TREMENS (ALCOHOL WITHDRAWAL DELIRIUM)

- ✓ This is the most severe manifestation of alcohol withdrawal.
- ✓ It occurs 3-10 days (first week) following alcohol withdrawal.
- ✓ It is characterized by altered consciousness, hallucinations and disorientation, global confusion, agitation, tachycardia and HTN
- ✓ It is a medical emergency characterized by altered consciousness, hallucinations (mainly visual) and disorientation, global confusion, agitation, tachycardia and hypertension.
- ✓ Untreated, It results to morbidity and mortality(20%)
- ✓ Patient may be suicidal or assaultive
- Commonly, these patients have co-existing medical, surgical and psychiatric diagnosis.

SYMPTOMS

- Autonomic hyperactivity
- Perceptual distortions
- ✓ Hallucinations visual / tactile
- Fluctuating levels of psychomotor activity
- Beware of unexpected DTs in patients admitted for other reasons

TREATMENT of DTs

Prevent by giving:

- ✓ A benzodiazepine (DoC) e.g. diazepam for the management of all stages of alcohol withdrawal to minimize withdrawal-related problems. It will deal with the tremors, prevent the fits and enable the patient to sleep (by alleviating anxiety)
- ✓ Vitamin B & C (Pabrinex I & II)
- Rehydration
- Diet supplementation

ALCOHOL INDUCED PERSISTING AMNESTIC BEHAVIOUR

- # This is one of the most serious neuropsychiatric conditions associated with alcohol misuse and which causes significant morbidity and mortality.
- # The onset is commonly but not always associated with alcohol withdrawal and may occur in patients who do not use alcohol (e.g. in those with gastric carcinoma).
- # Loss of memory resulting from prolonged alcohol use. it is rare in those <35years of age
- # There are 2 forms
 - Wernicke's syndrome acute syndrome; also called alcoholic encephalopathy; It is reversible.
 - ✓ Korsakoff syndrome chronic condition; Only 20% of the patients recover.
- Early Treatment of Wernicke's encephalopathy with **thiamine** may prevent Korsakoff syndrome.

WERNICKE ENCEPHALOPATHY

- # Clinical triad of:
 - Confusion
 - Ataxia
 - Nystagmus/opthalmoplegia
- ₩ When the persistent learning and memory deficits are present, the symptom complex is often called Wernicke-Korsakoff syndrome.
- Clinically, this term is best conceptualized as 2 distinct syndromes with acute/sub-acute confusion state and often reversible findings of Wernicke encephalopathy vs. the persistent and irreversible findings of Korsakoff dementia.
- **Korsakoff** psychosis is characterized by short-term memory loss, but with preservation of other intellectual function.

CONT.

- # Health care providers usually need to treat varying degrees of withdrawal symptoms in any patient who presents with Wernicke Korsakoff syndrome
- Heavy long-term alcohol use is the most common etiology for the development of Wernicke-Korsakoff syndrome
- # A deficiency of thiamine is responsible for the symptom complex manifested in Wernicke-Korsakoff syndrome and any condition resulting in poor nutritional state places patients at risk.
- # Alcohol interferes with active GI transport and chronic liver disease leads to decreased activation of **thiamine pyrophosphate** from thiamine, as well as a decreased capacity of the liver to store thiamine
- # The treatment is the replacement of this essential vitamin
- The mortality rate of Wernicke encephalopathy is up to 10-15% in severe cases.

ALCOHOL INDUCED PERSISTING DEMENTIA

- # Reduction of brain of cortex in persons who have been taking alcohol for a long time.
- # Patient loses memory and has deterioration of the personality

<u>ALCOHOL-INDUCED</u> DISORDERS

- Psychotic disorders
- Mood disorders
- Anxiety disorders
- Sexual disorders
- Sleep disorders
- Alcohol related disorder not otherwise specified.
- The management of these disorders require patient withdrawing from the alcohol as well as treating the induced disorder i.e. detoxification and rehabilitation.

CONCLUSION

- *Alcohol abuse and dependence are by far the most common substance related disorder.
- **Alcohol abuse and dependence are commonly referred as alcoholism by the term lacks precise definition and is not a term used by DSMIV.

#THE END