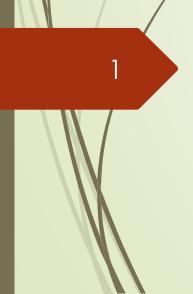




Substance abuse (NICOTINE)



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Internation by Will Ards

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NICOTINE **D**Forms of nicotine A LOVE STORY UP IN SMOKE GREGOR HENS Physiological effects of nicotine Common food with nicotine content Output in the second UWhy should we treat tobacco use



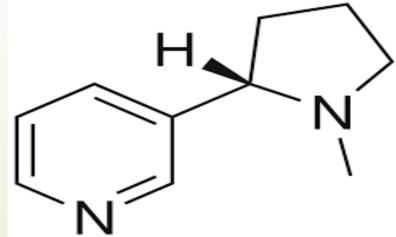




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 Nicotine is an pyridine pyrimidine alkaloid found naturally in tobacco plants, constitutes approximately 0.6 - 3.0 percent of dry weight of tobacco

 Nicotine is a brown liquid soluble in water and it is non polar solvents.



FORMS OF NICOTIONE

5

• The type of nicotine found in tobacco plants, comes from the nightshade family

Nicotine is synthesized in the roots of tobacco plants and it is then carried to the leaves, where it is stored in concentrations of between 2 to 8 percent by weigh.



PHYSIOLOGICAL EFFECTS OF NICOTINE

6

In large doses the nicotine is highly toxic
Nicotine mood altering effects are different by report it is both a stimulant and relaxant
Stimulus effect - release of norepinephrine
First causing a release of glucose from the liver and epinephrine (adrenaline) from the adrenal medulla

PHYSIOLOGICAL EFFECTS OF NICOTINE

7

And it cause feeling of relaxation By reducing the appetite and raising the metabolism and some smokers may lose weight as a consequence. And it is cause depression - by blocked nerve activity



Do you think the smoking have a bad effects on the heart ?



COMMON FOOD WITH NICOTINE CONTENT

- . Tomato
 . Potato
 . Eggplant
 . Cauliflower
 . Peppers and capsicums
- . Tea



NICOTINE ABSORABTION & METABOLISM

. The most common way to get nicotine into your bloodstream is through inhalation

. Nicotine taken in by cigarette or cigar smoking takes only 10-15 seconds to reach the brain but has a direct effect on the body for only ~30 minutes

. It can be absorbed by the body from smoke that has been taken into the lungs, or through the skin

NICOTINE ABSORABTION & METABOLISM

. And it rapidly crosses the blood-brain barrier, appearing in brain tissue



NICOTINE ABSORABTION & METABOLISM

. About 80 percent of nicotine is broken down to cotinine by enzymes in your liver

. Nicotine is also metabolized in your lungs to cotinine and nicotine-N-oxide Cotinine and the remaining nicotine is filtered from the blood by your kidneys and excreted in the urine

WHY WE NEED TO TOBACCO CONTROL

NCONT

. Tobacco control is also one of the 16 essential services monitored by the WHO to achieve universal health coverage UHC

. 1 in 5 deaths in the USA are due to smoking

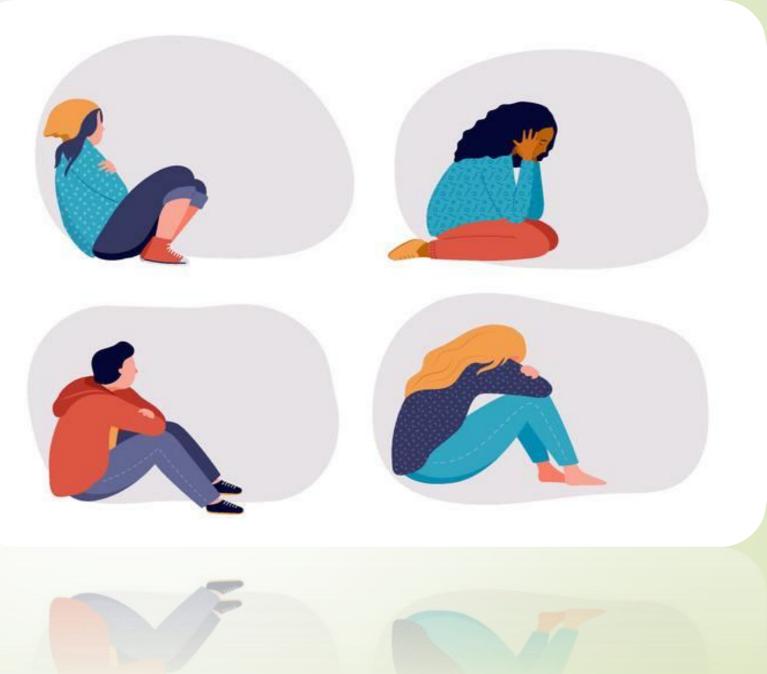
. And 1 in 3 cancer deaths are caused by smoking

. 70% of smokers want to quit

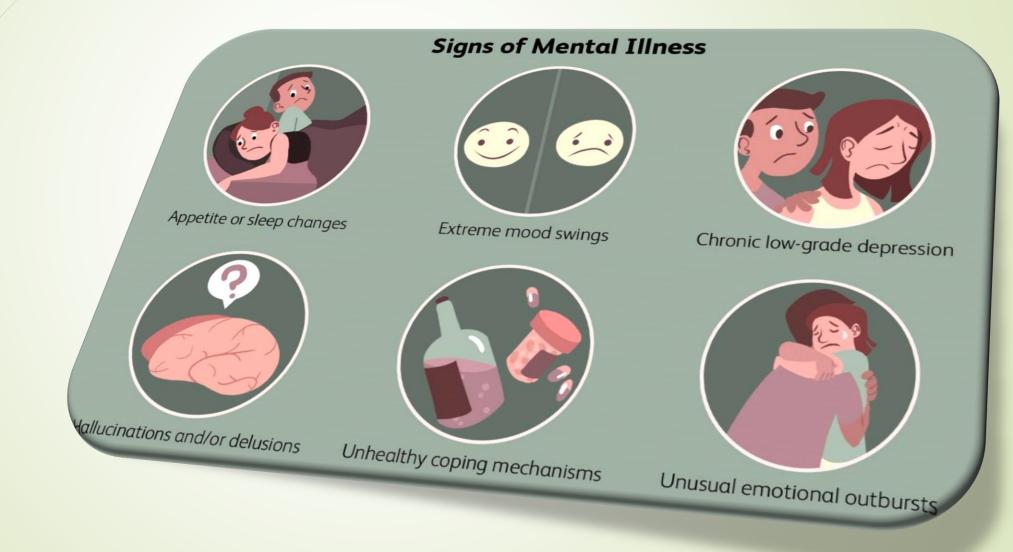
. And Less than 10% succeed without assistance

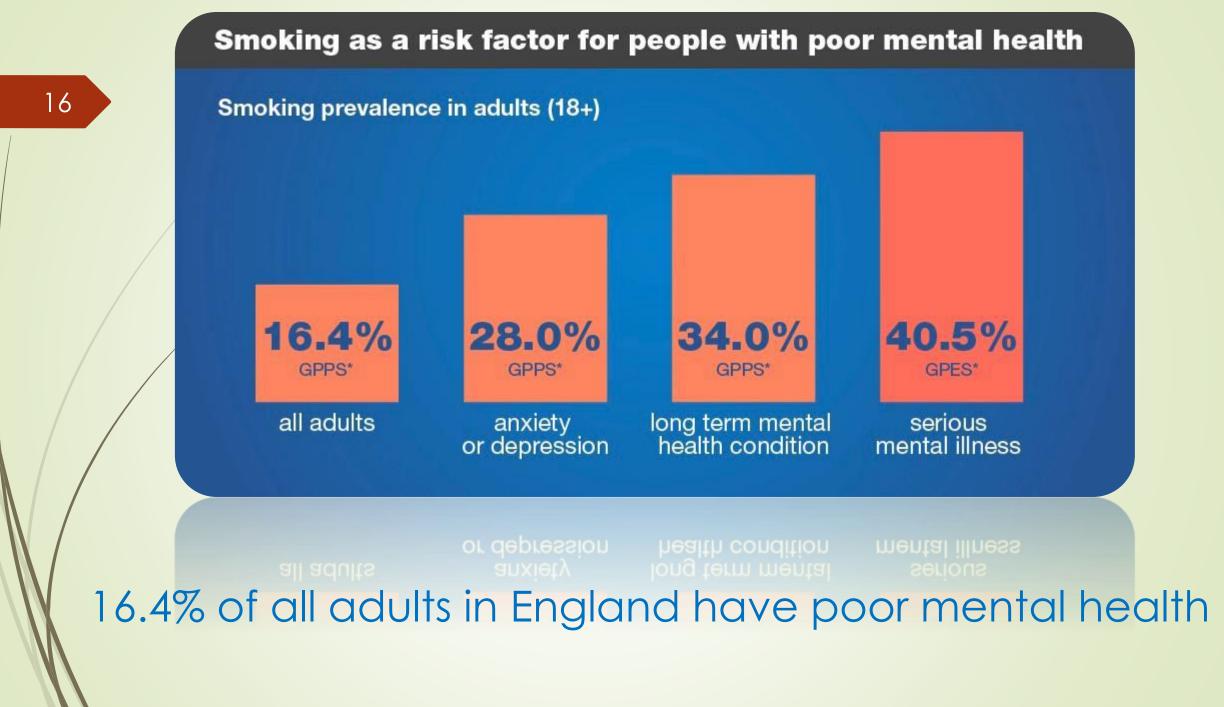
. The association between smoking and mental health conditions

WHAT DO YOU KNOW ABOUT POOR MENTAL HEALTH?



1)Long term mental health condition2)Severe mental health condition





1)Nicotine is soluble in water and in non polar solvents

17

2)Nicotine is synthesized in the roots of tobacco plants

3)Food with Nicotine Content few common vegetables, mostly from the (nightshade) family

CONCLUSION

4)Nicotine can be absorbed by the body from smoke and it is highly toxic

5) About 80 percent of nicotine is broken down to cotinine by enzymes

6) Risk factor of smoking on mental health condition



1)Centers for disease control and prevention, Annual Smoking-Attributable mortality, years of potential life lost, and economic costs- us,1995-1999

2)Nab biopharmaceuticals ,key facts about smoking nicotine addiction and cigarette smoking-a growing global health challenge

3)National Center for Health Statistics. Health, United States, 2006, with chartbook on trends in the health of Americans. Hyattsville, MD, 2006

4) U.S. Department of Health and Human Services. Reducing tobacco use: a report of the Surgeon General. Atlanta, GA, U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health, 2000.

5) Lightwood J. The economics of smoking and cardiovascular disease. Prog Cardiovasc Dis. 2003

6) GPPS_GP Patient Survey, 2014-2015

7) GPES_General Practice Extraction Service, 2014-2015

THANK YOU

