

#### **Drugs and Alcohol**

Psychology 472: Pharmacology of Psychoactive Drugs

Listen to the audio lecture while viewing these slides

#### **Effects**

- Can be additive
- Can be synergistic
- Can reduce effectiveness of drugs
- Can increase risk of other diseases
- Can cause overdoses when used with other drugs

485

#### **Additive Effects**

- Benzodiazepines
  - Alcohol binds on different BZ sites than traditional BZ drugs
  - Get an additive effect
  - 5mg Alcohol + 5mg Valium = 10mg of drug in the body
- Can be dangerous but usually not fatal

a 4

# Flunitrazepam Rohypnol



- (Row-hip-nole) or (Flun i traz a pan)
- La roche, R2, Rib, Roach, Roofenol, Roofies, Rope, Rophies, Ruffies,
- Is a short intermediate term BZ agonist
  - Effects can last 8-10 hours
- Is very good hypnotic for insomniacs, also used as anticonvulsants, anxiolytic, amnesic, and a muscle relaxant
- Is odorless and colorless can be put into ANY drink (water, alcohol, soda's)

## **Alcohol and Rohypnol**

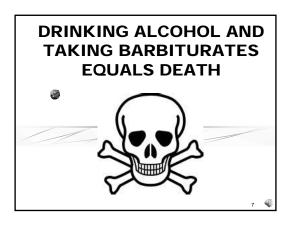
- Creates a synergistic effect
- Produces disinhibition and amnesia
  - Shuts down the hippocampus and prefrontal cortex
- Classic date rape drug
- With alcohol effects can last up to 36 hours

40

## **Synergistic Effects**

- Barbiturates
- Is an old combination
  - Mickey Finn
  - Combine alcohol and Phenobarbital
- Causes unconsciousness
- Drugs create a multiplicative effect
  - 5mg Alcohol X 5mg of Barb. = 25mg

6 📲



#### **GHB**

- Gamma HydroxyButyrate
- scoop, scoop her liquid X, Grievous Bodily Harm (GBH), liquid ecstasy, liquid E, fantasy, blue nitro, beauty, liquid, easy lay, EZ lay, clear X, liquid dream.
- Used in medicine as a presurgical anesthetic, sleep aid, amnesic, other
- Is a CNS depressant
- Binds on GHB receptor (G-Protein type) and GABA b receptor (metabotropic K type)

- 40

#### **Ethanol and GHB**

- Very dangerous
  - Difficult to calculate the dose
  - Get synergistic effects
  - Causes CNS depression and death
- Amnesic properties make it prime drug for date rapes.
  - Shuts down the hippocampus.

4

## **Alcohol and Stimulants**

- Examples
- · Cocaine, amphetamine, caffeine, etc
- Masks the effects of alcohol but do not overcome the effects.
  - Creates a wide awake drunk
- Increases the risk for overdose of other drug
- · Increases BP, etc.

## **Alcohol and Smoking**

- Increases risk for multiple types of cancer
- Mouth, tongue, throat, etc.
- Similar or even greater risks with marijuana.
- All create irritation

11 🦋

## **Alcohol and Antibiotics**

- Slows the response time of the antibiotic and antivirals
- Reduces the effectiveness
  - Is bad news.
- Don't drink when you are sick
  - Decreases your immune system

12 🤻

## **Alcohol and Opiates**

- Vicodin, Oxycontin, Codeine, Hydrocodone, Morphine, etc.
- Further increases depressive effects on Mu receptors
  - Decreased respiration
  - Decreased BP, etc
- Combinations can kill you

13

# **Alcohol and OTC Drugs**

- Aspirin, Tylenol, Advil, etc
  - Can cause stomach irritation, influence metabolism, etc
- Cough Syrup
  - Many contain alcohol
- OTC Vitamins
  - Reduces effectiveness
- Antihistamines
- Sudafed, Benadryl
  - Increases drowsiness, slows reaction time

14

## Conclusion

- Ethanol impacts all other drugs
- Causes multiple types of effects

15 🤻