Physical Effects of Alcohol

- I. Natural Properties of Alcohol Dehydrator - Drives away Water Α. 1. Dry Mouth with Hangover 2. Dries out Body Tissues в. Solvent 1. Paint Thinner, Stain Remover Effects on Body Tissue II. Irritant (solvent, dehydration) Α. Β. Sedates 1. Alcohol is a Central Nervous System depressant 2. Slows body functions, Lowers body temperature III. Alcohol and Nutrition - 5 Main Effects Substitution: Empty calories, No nutritive value, drink Α. rather then eat 1. Eliminates zinc from body - reduces taste 2. Aggravates nausea - skip breakfast Malabsorption - inflames stomach/intestinal tract - stops Β. absorption: Protein and vitamins B & C (stomach) 1. Vitamins A, D, K (K=bruising) (intestine) 2. Blocking - interferes with ability to use vitamins С. B = Nerves, B12 & K = Night Blindness 1. Alters Organ Function D. 1. Liver can't handle fats - gouty arthritis 2. Alters Pancreas (sugar metabolism) Affects Heart (3 or more/day) 3. Ε. Hyper-excretion Increases loss of vitamins and minerals 1. 2. Weakens: bones, appetite, sex drive,... 3. Caffeine - Causes Gastritis Nicotine - narrows blood vessels, cuts oxygen, reduces 4. absorption of nutrients Alcohol and the Brain IV. Intellect / Judgment Α. 1. Thinking and judgment affected first- sedation Intellect rules emotions, inhibitions lowered, act! 2. Emotions Β. 1. Amplified / Exaggerated С. Voluntary Motor Center Driving, Walking, talking, ... 1. Relaxes motor center, reaction time slows, 2. Semi-Voluntary Motor Center D. 1. Sneezing, Coughing,... With relaxation -- Pass Out! 2. Involuntary Motor Center Ε. Breathing, Heart Rate, Body Temperature 1. Complete relaxation = DEATH 2. Brain Cells - Killed by Alcohol/Drugs F. 1. Do Not Regenerate
 - 2. Organic Brain Syndrome (Korsakoff's Syndrome)

"WET BRAIN"

- V. Alcohol/Drug Tolerance
 - A. Social vs Problem Tolerance
 - B. Tolerance Progression
 - 1. Increases -- Plateaus -- Decreases
 - a. Decrease = Liver Damage
- VI. Alcohol Withdrawal
 - A. Rebound Effect
 - 1. Rebound = agitation, anxiety, over-alertness,...
 - a. 4-6 Drinks/ 5-7 Hrs.= 16-24 Hrs. Rebound Sleep Disturbance
 - Β.
- 1. REM Sleep Decreased
 - 2. Vivid dreams may awaken!!
- C. Withdrawal Symptoms
 - 1. Tremors Begin within 8 hrs, last 2-10 days.
 - 2. Seizures- Greatest Risk in first 48-72 Hrs
 - 3. Hallucinations 48-72 Hrs
 - 4. Delirium Tremens (DT's) Life Threatening 4-5 Days
 - at Risk fever, agitation, delusions,...
- VII. Fetal Alcohol Syndrome
 - 1. 1/2000 babies born with FAS
 - 2. Symptoms
 - Miscarriages, premature births, slow growth, small heads, facial irregularities, defective organs, malformed limbs
 - b. Behavioral Mental retardation, poor attention spans, hyperactivity, learning disabilities,...
 - 3. Causes
 - a. Alcohol/Drugs pass through placenta to unborn child, then into child's bloodstream.
 - Interferes with oxygen uptake, child starved for oxygen. (Theory #1)
 - c. Inhibits absorption of zinc. Zinc spurs growth and development. (Theory #2)
 - 4. "Safe" Quantity of Alcohol/Drugs
 - a. UNKNOWN !!
 - b. DON'T DRINK!! No alcohol/drug use ensures no problems.

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