ANXIOLYTICS, SEDATIVES & HYPNOTICS Part 2 Dr. Aisyah Saad FAR 344/4

benzodiazepines...

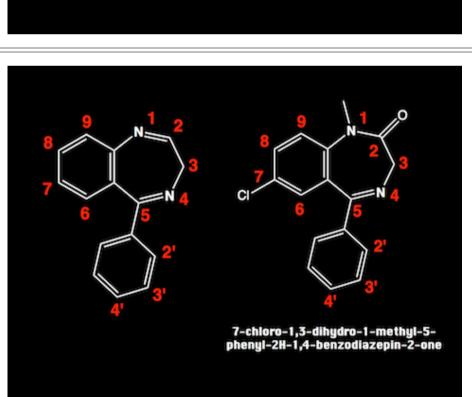
- Leo Sternbach
 - The chemist who invented
 RZDe
 - Almost threw away some compounds during lab clean up, but submitted it for clinical studies and the rest is history...
 - Librium introduced in 1960's
- Supersede barbiturates

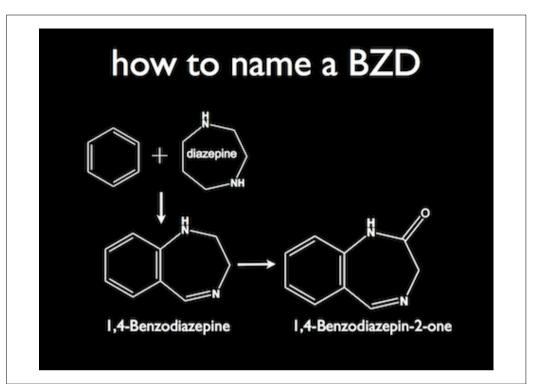


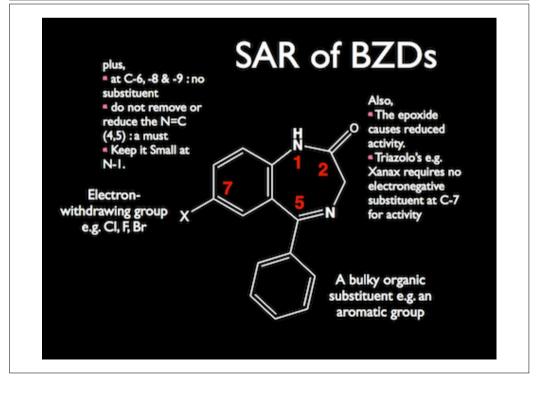
So, the world was looking for a safer and effective sedative... and they discovered...

Meet the superstars...

how to name a BZD?







Let's see how some benzodiazepines behave when they're exposed to light, heat, acid & alkali

Weak acid properties of BZD with lactam substructure

Protonation occurs at N-4 which generates a phenylogous amidinium cation

Weak acid properties of BZD with hydrolactam substructure

Hydrolysis of BZD with lactam/ hydrolactam structure R3 H20/H R2 Aminobenzophenone Glycine derivative

