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|  | Materials needed:  \*Test subjects: rats or mice (one per drug)  \*Analgesics: this experiment: Tylenol, ibuprofen, vicodin  \*Sterile syringe: any syringe that can hold a minimum of 1cc.  \*Sterile needle: 27 gauge 1 ¼ inch (one per injection)  \*NACL solution: water and common table salt. \*Plastic zip lock bag: this bag needs to be big enough to fit the animal in it 10 9/16 in or one-gallon bag will work for a rat \*Ice pick: to pock holes in bag for animal to breathe  \*Thick rubber or leather glove: this is too protect your hand from being scratched or bitten when injection is given  \*Recording equipment: video camera is desired yet a still camera could be used if enough pictures are taken  \*Pipette: this is used to administer the drugs to the animals.  \*Scale: must measure in cc or mg (needed for accurate dosage)  Procedure:  Part. I: preparation of medication and delivering of medication  1. mass each subject and record mass in oz  2. read dosage for an adult person of 100 pounds and record in oz  3. use a ratio to find the appropriate dosage for test subject (see example)  Standard human dosage cc = 100 pds / 1,600 oz human  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Subject dosage (variable) cc = Weight of test subject in oz  Subject dosage (variable): translates directly into amount of medication needed in cc.  4. grind medication in fin powder.  5. mix powder with sugar and water until it has a syrupy consistency  6. use pipette to pipette medication into subjects stomach; make sure the pipette reaches mid-throat or the subject is likely to reject medication  7. take note of max serum levels and move onto part two  Part. II: Preparation and injection of irritant  1. view max serum levels for specific medication and inject only when max levels have been reached  Max Serum levels in blood stream  Vicodin : 30-60 min after dosing  Ibuprofen : 1-2 hours after dosing  Tylenol : 2-4 hours after dosing  2. poke holes in zip lock bag in order to allow air to circulate for test subject to breath  3. mix warm distilled water and NACL (should taste like sea water)  4. screw needle onto syringe and break seal of protective cap  5. fill syringe with ¼ cc of warm NACL solution  6. inject test subject with NACL solution into front foot pad  7. place subject into zip-lock bag and began observation immediately |

*This Web Site is Best viewed with 256 or more colors.*

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