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Toxicology Review Guide (notes/articles pages 67-92)

- 1. Know the distinct difference between bioaccumulation and biomagnification and examples of the terms in context.
- 2. Be able to perform basic calculations (with or without using dimensional analysis) like the ones performed with ibuprofen and acetaminophen.
- 3. Know the major case studies (Lake Apopka and the Great Lakes), the chemicals involved, the animals affected, and how they were affected.
- 4. Know why the GLWQA was established between the U.S. and Canada.
- 5. Know the exact definition of LD₅₀
- 6. Know the two dose-response models: threshold and non-threshold and be able to determine NOEL (NOAEL), TLV, potency, and LD₅₀ using such graphs (refer to notes and example questions on page 74).
- 7. Know the problems with aquaculture (we watched videos on this when we were reviewing bioaccumulation).
- 8. Know the chemical classifications (flammables, asphyxiants, irritants/allergens) and a few examples of each.
- 9. Mercury in the water (Minamata disease know the basic background story)
- 10. Know the methods that scientists use to determine toxicity: doctors' medical reports, controlled lab experiments (be ready to apply your knowledge of valid experimental design)
- 11. Mutagens and carcinogens know how they are alike and what makes them different.
- 12. Teratogens and endocrine disruptors know how they are alike and what makes them different and examples of chemicals in these categories.
- 13. Know how neurotoxins affect an organism
- 14. Know the difference between acute exposure/response and chronic exposure/response.
- 15. Chemical interactions: know the definitions of additive, synergistic, antagonistic
- 16. Why is Rachel Carson significant in the realm of environmental studies?
- 17. Be able to relate some knowledge gained from watching Contagion movie summary questions and pages 69a-b (remember ... you were supposed to read those pages)