Biopsychology Final Study Guide

Hormones and Sex – ch. 13

Developmental versus activational effects of hormones

Mamawawa

Endocrine glands

Steroid hormones

Gonads

In males and in females

Primary and secondary functions

Relative ratio and levels of sex hormones produced by males and females

Organization (and feedback) of HPG axis

“Nature’s default is to produce a female”

under what conditions do the gonads develop into testes?

Conditions for development of Mullerian vs. Wolffian system

Precursors for gonads, internal sex organs, and external genitalia – do humans have precursors for male or female or both?

Basic types of hormones secreted by testes and what they do

Conditions for development of female vs. male external genitalia

secondary sex characteristics

Sequence of HPG events at puberty

3 cases of unusual human sexual development and why gonads, internal sex organs, and external genitalia would be the way they are

Sex differences in the brain

Perinatal hormones and behavioral development

Critical periods and sexual behavior

Scenarios for different treatment at birth and resulting sexual behavior as an adult

Hormone effects in adulthood

Section on Sexual orientation, hormones, and the brain (and outside studies mentioned in class)

Transexuals

Psychiatric Disorders (focus on drugs used to treat and how they work)

*\*For the drugs, be able to recognize the examples given in the PP. For essay and fill-in-blank, be able to list a generic name OR a brand name of a drug given in the PP or listed in the book. I would only ask you to be able to list one example of a drug of each class, e.g. one MAOI, one tricyclic, one SMRI, etc. If I gave you that information, be able to tell me how they work at the neuronal level (receptor blocker at postsynaptic Dopamine receptors).*

Schizophrenia

Definition

Positive symptoms

Negative symptoms

Causal factors

Dopamine theory of and most recent version of it

Drugs used to treat and which are considered typical neuroleptics and which are considered atypical

How the drugs work at the neuronal level

Schizophrenia and Brain Damage

Depression

Some different types

Causal factors

Drugs used to treat, examples, and how the drug works:

Monoamine Oxidase Inhibitors

Tricyclic Antidepressants

Selective Monoamine Reuptake Inhibitors

Mood Stabilizers

Effectiveness of drugs used to treat depression

Brain pathology and depression

Theories of Depression (Monoamine theory, Neuroplasticity theory)

Bipolar Disorder

Drugs to treat

Anxiety Disorders

4 classes of anxiety disorders

Etiology of anxiety disorders

Treatment of (know example of each and how it works at the neuronal level)

Benzodiazepines

Serotonin Agonists

Antidepressant drugs

Brain changes in

Tourette’s Syndrome

What is it?

Neuropathology of

Treatment of

Videos

Androgen Insensitivity Syndrome

David Reimer

Schizophrenia (people 1 and 4)

Cheese effect link (what are some foods that would result in this?)

Famous People with Bipolar (be able to list one or two)

Tourette’s