Important Neurotransmitters to Know

Neurotransmitter	Function	Problems with Excess, Deficit
Acetylcholine (ACh)	 critical to motor movement (deliver messages from neurons to muscles) learning memory 	deficits in ACh production in Alzheimer's disease
Dopamine	 motor movement alertness, attention 	deficit: Parkinson's disease excess: schizophrenia schizophrenia often treated with antipsychotic drugs: block dopamine receptors, limiting the amount of dopamine being transmitted across synapse
Endorphins	 pain control, stress reduction feelings of pleasure "natural opiates" 	deficits potentially involved in addiction?
GABA (gamma- aminobutyric acid)	brain's major inhibitory neurotransmitter	deficit: seizures, insomnia
Glutamate	 brain's major excitatory neurotransmitter creates links between neurons that form basis of learning, long-term memory 	• excess: overstimulation of brain (seizures?) (This is why people avoid food with MSG. MSG = monosodium glutamate)
Norepinephrine (aka. noradrenaline)	 "fight or flight" controls alertness, arousal elevates heart rate, circulation, respiration, etc. mood elevation 	deficit: depressed mood
Serotonin	 mood regulation hunger, sleep 	deficit: depressed mood depression often treated with selective serotonin reuptake inhibitors (SSRIs): prevent serotonin from being reabsorbed in uptake, thus leaving more serotonin in synapses