

NEUROBIOLOGY OF ADDICTION

ONLINE COURSE SYLLABUS

1.5 HOUR COURSE

Consider printing this document and tracking your activities as you progress through the course.

Module	Objectives	Topics	Activities
Module 1: Introduction (5 minutes)	Complete self measurement of knowledge before taking Documenting Disability online course	1. How to Navigate and Complete the Course 2. Pre-test on learning objectives	<input type="checkbox"/> Syllabus <input type="checkbox"/> Video Tutorial <input type="checkbox"/> Pre-test
Module 2: Why are some chemicals addicting while others are not? (30 minutes)	Describe and discuss the five C's of addiction and relate the five C's to patients experiencing homelessness. Describe the reward circuits and the reward center.	1. What is addiction? 2. The five C's of addiction: chronic disease, impaired control, compulsive use, continued despite harm, craving. 3. Neurology 101: neuron, dendrites, cell body, axon, synapse, agonist, antagonist, partial agonist, 4. What are reward circuits: factors impacting them; neurobiology of; key neurotransmitter for; and what makes stimulation rewarding?	<input type="checkbox"/> Video <input type="checkbox"/> Activity
Module 3: How do addictive drugs cause the release of dopamine in the reward center? (15 minutes)	Describe and discuss the process of the reward circuits? Describe the impact that specific drugs that are frequently abused and misused have on human neurology.	1. Map and review of the brain's reward circuits 2. What is the impact of drugs on reward center 3. What is the impact of addictive substances, both use and withdrawal for: alcohol, benzodiazepines, phenobarbital, opiates, endocannabinoids, cannabis, stimulants, nicotine?	<input type="checkbox"/> Video <input type="checkbox"/> Activity
Module 4: Why isn't everyone who tries drugs addicted? (30 minutes)	Describe and discuss the factors affecting addiction potential. Describe and discuss effects of specific pharmacological and behavioral interventions for addicted patients. Relate factors affecting addiction potential and effects of interventions to patients experiencing homelessness.	1. The factors of the agent, host, and environment affecting addiction potential. 2. What are the effects of interventions: cognitive behavioral therapies and pharmacology?	<input type="checkbox"/> Video <input type="checkbox"/> Activity
Module 5: Conclusion (10 minutes)	Complete self-measurement of knowledge after completing the Neurobiology of Addiction online course.	1. Post-test on learning objectives 2. Evaluation of Neurobiology of Addiction online	<input type="checkbox"/> Post-test <input type="checkbox"/> Survey