Caring for the Endocannabinoid System

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Disclosures

Bonnie Johnson, MS, RDN:

- Editorial Board and Contributor to *CRx Magazine* (Great Valley Publishing)
 Janice Newell Bissex, MS, RDN:
- Editorial Board and Contributor to CRx Magazine (Great Valley Publishing)
- Owner, Jannabis Wellness and Jannabis Wellness (hemp CBD products)

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Getting Familiar with the ECS: *Learning Objectives*

- At the end of this session, participants will be able to:
- 1. Identify 2 receptors and 2 ligands of the endocannabinoid system (ECS).
- Discuss the role of the endocannabinoid system in the etiology of migraine, fibromyalgia, irritable bowel syndrome, and other conditions.
- 3. Explain the role of cannabis and CBD in the regulation of the ECS.
- Discuss the different methods of cannabis or CBD administration, and why some might be more effective than others based on potential drug interactions, condition, and lifestyle.

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Endocannabinoids¹

- Messengers: essengers: The endocannabinoids (also called ECS ligands) are the messengers that connect with receptors and start biochemical cascades to maintain homeostasis.
- Anandamide also known as N-arachidonylethanolamide
 AEA
- 2-AG
 also known as sn-2-arachidonoylglycerol
- AEA and 2-AG are released from phospholipids embedded in cell membranes and released **on-demand** or only when they are needed. AEA and 2-AG cannot be packaged and stored for later use unlike other biological messengers.

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Modes of Administration

- Sublingual tinctures
- •Topical Creams
- Transdermal Patches
- Capsules/softgels
- Inhalation
- Edibles
- Suppositories
- Raw juice



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Onset and Duration				
Format/Method	Onset (minutes)	Duration (hours)		
Ingested (capsules, edibles, drinks)	30-120	6-12		
Inhaled (vapor or smoke)	1-3	1-3		
Sublingual (drops, lozenges, spray)	15-30	2-4		
Topical (salves, roll-ons, creams)	30-60	2-4		
Transdermal (patch, gels)	15-30	6-12		
Suppositories	15-30	6-8		
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- The ECS is relatively new to most healthcare professionals and can contribute to homeostasis in the body
- We can influence our ECS with lifestyle modifications, food, and plant-derived medicines like cannabis and CBD



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